SONY

# SERVICE MANUAL

# BG-2S CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|
| KV-J14M1 | RM-869 | E | SCC-U03J-A |
| KV-J14MH1 | RM-869 | Hong Kong | SCC-U02E-A |
| KV-J14PF1 | RM-869 | Thailand | SCC-U06G-A |

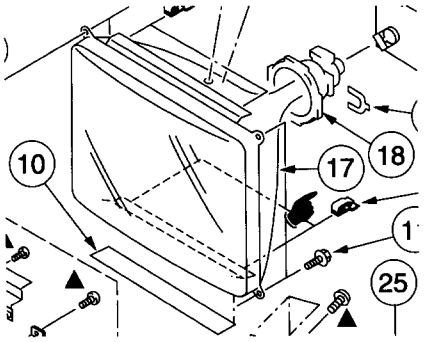
# SUPPLEMENT-1

**SUBJECT : PART CHANGE**

File this supplement with the Service Manual.

SECTION 7 EXPLODED VIEWS

7–1. CHASSIS (see page 45, 46)




| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 17 | ⚠ 8-735-568-05 | PICTURE TUBE (A34UBU70X) (J14PF1(THAILAND) ONLY) | |

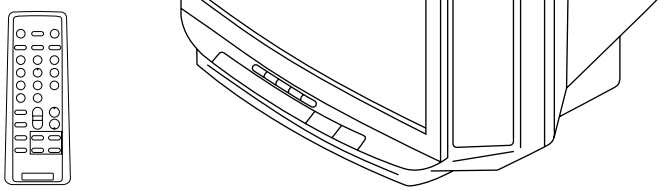
MICROFILM

# SERVICE MANUAL

# BG-2S CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|
| KV-J14M1 | RM-869 | ME | SCC-U07P-A |

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|



MICROFILM

TRINITRON ® COLOR TV

SONY ®

## SPECIFICATIONS

| | KV-J14M1J | Note |
|---|---|---|
| Power requirements | 110-240 V AC, 50/60 Hz | |
| Power consumption (W) | Indicated on the rear of the TV | |
| Television system | B/G, I, D/K, M | |
| Color system | PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58 | |
| Channel coverage | | |
| B/G | VHF: E2 to E12/UHF: E21 to E69/CATV: S01 to S03, S1 to S41 | |
| I | UHF: B21 to B68/CATV: S01 to S03, S1 to S41 | |
| D/K | VHF: C1 to C12, R1 to R12/<br>UHF: C13 to C57, R21 to R60/<br>CATV: Z1 to Z39, S01 to S03, S1 to S41 | |
| M | VHF: A2 to A13/ UHF: A14 to A79/<br>CATV: A-8 to A-2, A to W+4, W+6 to W+84 | |
| Audio output (speaker) | 3W+3W | |
| Inputs | ⅂[ (antenna): 75 ohms external terminal | |
| | (video input) jacks: phono jacks<br>(video): 1 Vp-p, 75 ohms<br>♪ (audio): 500 mVrms, high impedance | |
| Outputs | (earphone) jack: mini jack | |
| | (monitor output) jacks: phono jacks<br>(video): 1 Vp-p, 75 ohms<br>♪ (audio): 500 mVrms | |
| Picture tube | 14 in. | |
| Tube size (cm) | 37 | Measured diagonally |
| Screen size (cm) | 34 | Measured diagonally |
| Dimensions (w/h/d, mm) | 456 × 343 × 416 | |
| Mass (kg) | 12 | |

Design and specifications are subject to change without notice.

**CAUTION**

**SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.**

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.**

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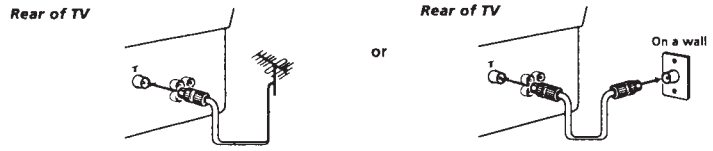
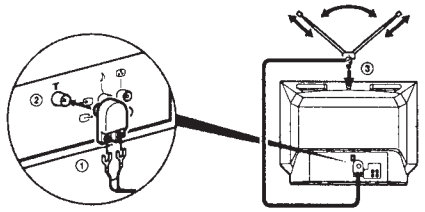
# Connections

## Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the Y (antenna) socket at the rear of the TV.




## Connecting an indoor antenna



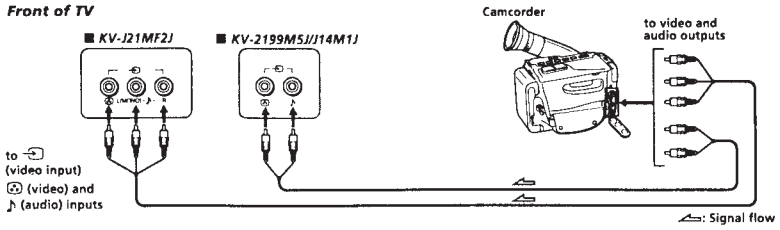
**Notes**

- You are advised to use an outdoor antenna for better reception.
- Model KV-J14M1J is used for illustration purposes, however, the connection procedure is the same for KV-2199M5J and KV-J21MF2J.

## Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

### Connecting video equipment using the → (video input) jacks



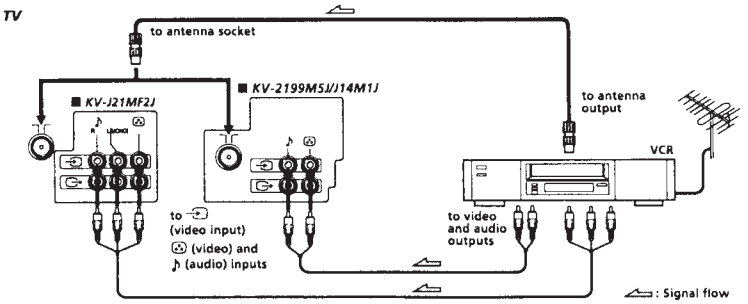

**When connecting monaural audio/video equipment to model KV-J21MF2J**

Connect the yellow plug to and the black plug to ♪-L (MONO).





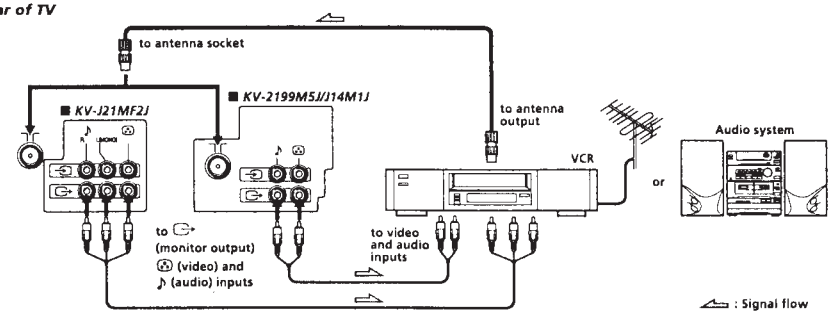
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in this manual.




**When connecting video equipment to the → (video input) jack**

Do not connect video equipment to the → (video input) jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

### Connecting audio/video equipment using the → (monitor output) jack




**When recording through the → (monitor output) jack**

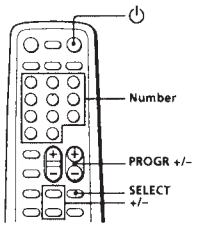
Do not change the channel or video input while recording with a VCR, otherwise the channel or video input you are recording also will be changed.

# Presetting channels

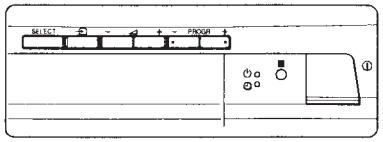
You can preset up to 100 TV channels in numerical sequence from program position 1 using the buttons on the remote commander or the TV.

You can preset TV channels quickly, automatically or manually.

***Remote commander***




***Front of TV***

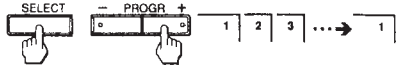


## Quick channel presetting

**1 Press ⏻ to turn on the TV.**

When the TV is turned on in standby mode, press ⏻ on the remote commander.

**2 Press SELECT and PROGR + on the TV simultaneously for one to two seconds.**




**If the picture color is poor and/or the sound is noisy (for KV-J21MF2J/J14M1J)**

Select the appropriate TV system as follows:

1 Press SELECT on the remote commander or the TV until "TV SYSTEM" appears.

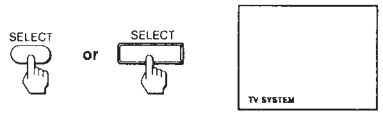
2 Press +/– on the remote commander or ◿ +/– on the TV until the picture and sound become normal.

**Notes**

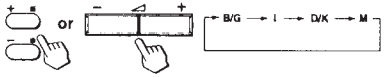
- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the "TV SYSTEM" is memorized for each program position.

## Presetting channels automatically

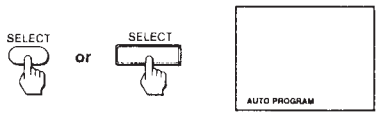
**1 Press SELECT on the remote commander or the TV until "TV SYSTEM" appears on the screen (for KV-J21MF2J/J14M1J).**



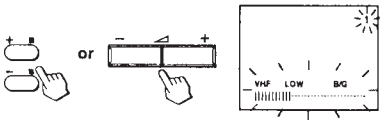

**2 Press +/– on the remote commander or ◿ +/– on the TV to select the TV system (for KV-J21MF2J/J14M1J).**



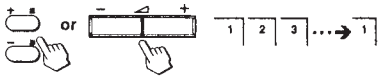

**3 Press SELECT on the remote commander or the TV until "AUTO PROGRAM" appears on the screen.**




**4 Press +/– on the remote commander or ◿ +/– on the TV.**

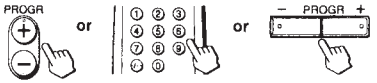



**5 Press +/– on the remote commander or ◿ +/– on the TV again.**



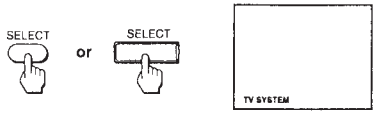

**To start presetting channels automatically from the specified program position**

Press PROGR +/– or number buttons on the remote commander or PROGR +/– on the TV until the required program position appears on the screen after step 4 of "Presetting channels automatically".

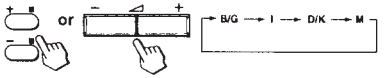



## Presetting channels manually

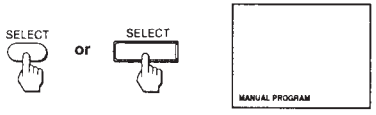
**1 Press SELECT on the remote commander or the TV until "TV SYSTEM" appears on the screen (for KV-J21MF2J/J14M1J).**



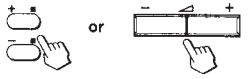

**2 Press +/– on the remote commander or ◿ +/– on the TV to select the TV system (for KV-J21MF2J/J14M1J).**



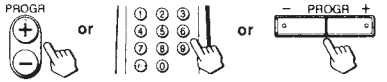

**3 Press SELECT on the remote commander or the TV until "MANUAL PROGRAM" appears on the screen.**



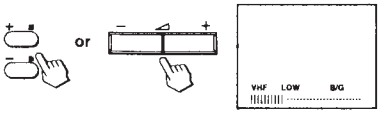

**4 Press +/– on the remote commander or ◿ +/– on the TV.**



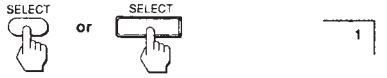

**5 Press PROGR +/– or number buttons on the remote commander or PROGR +/– on the TV until the required program position appears on the screen.**




**6 Press +/– on the remote commander or ◿ +/– on the TV until the required channel picture appears on the screen.**




**7 Press SELECT on the remote commander or the TV.**




## Disabling program positions

**1 Press PROGR +/– or number buttons on the remote commander or PROGR +/– on the TV until the unused or unwanted program position appears on the screen.**

**2 Press SELECT on the remote commander or the TV until "MANUAL PROGRAM" appears on the screen.**

**3 Press +/– on the remote commander or ◿ +/– on the TV.**

**4 Press PIC MODE on the remote commander.**

**5 Press SELECT on the remote commander or the TV.**

**To preset the disabled program position again**

Preset the channel quickly, automatically or manually.

# Watching the TV

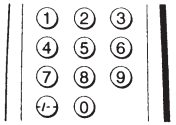
**1 Press ⏻ to turn on the TV.**

When the TV is turned on in standby mode, press ⏻ on the remote commander.

**2 Select the TV program you want to watch.**

**To select a program position directly**

Press the number button.




To select a two-digit program position, press "-/--" before the number buttons.

For example: to select program position 25, press "-/--," and then "2" and "5."

**To scan through program positions**

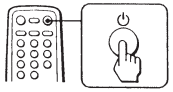
Press PROGR +/– until the program position you want appears.

**3 Press ◿ +/– to adjust the volume.**

## Turning off the TV

**To turn off the TV temporarily**

Press ⏻ on the remote commander. The ⏻ indicator on the TV lights up.



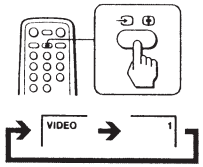
**To turn off the TV completely**

Press ⏻ on the TV.

If the power on the TV is turned off in standby mode, the ⏻ indicator on the TV may remain alight for a while.

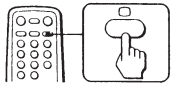
## Watching the video input

**Press ⮌ ⊕.**



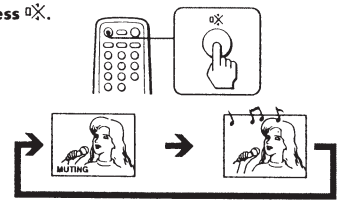

**To watch TV**

Press ▢.



## Muting the sound

**Press 🔇.**

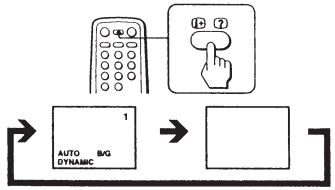





## Displaying on-screen information

**Press ⓘ ?.**

The program position, local system, and TV settings are displayed on the screen.

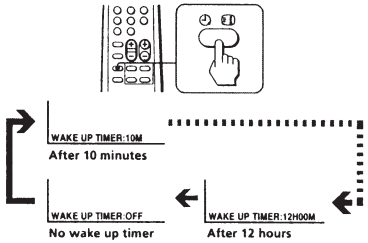



## Setting the Wake Up Timer

You can set the TV automatically turned on as you program.

**1 Press ◴ ⓘ repeatedly to set the timer.**

The on-screen display appears and the ◴ indicator on the TV lights up.




**2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video input.**

**3 Press ⏻ on the remote commander or set the Sleep Timer to turn off the TV in standby mode.**

To cancel the Wake Up Timer, press ◴ ⓘ repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

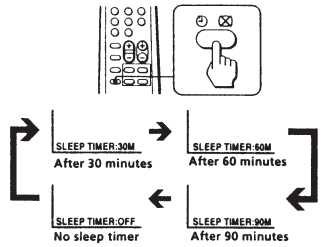
**Notes**

- The Wake Up Timer starts immediately after the on-screen display disappears.
- The last TV program position or video input just before the TV turns into standby mode will appear when the TV is turned on using the Wake Up Timer.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. If you want to continue watching the TV, press any button or control on the TV or remote commander.

## Setting the Sleep Timer

You can set the TV automatically turned off as you program.

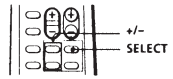
**Press ◴ ⊠.**




To cancel the Sleep Timer, press ◴ ⊠ repeatedly until "SLEEP TIMER: OFF" appears, or turn off the TV.

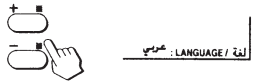
## Changing the on-screen display language

You can use buttons on the remote commander or the TV to change the on-screen display language.




**1 Press SELECT until the screen appears as follows:**

**2 Press +/– to select " عربي ".**

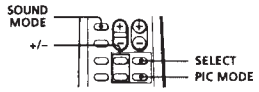



**Note**

- You can also use SELECT and ◿ +/– on the TV to select the on-screen display language.

# Adjusting the picture

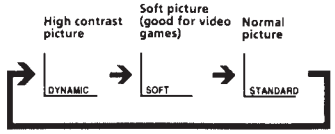
**Note on the SOUND MODE button**
- The sound mode feature is unavailable for your TV. Thus, the SOUND MODE button on the remote commander is not used for your TV.




## Selecting the picture mode

**Press PIC MODE until the mode you want appears.**

Each time you press PIC MODE, the screen changes as follows:

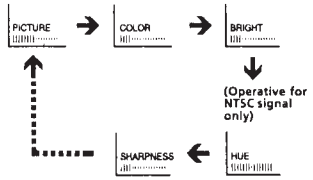



**Note**
- If you change the picture mode after the following adjustments, the adjustment changes in accordance with the picture mode.

## Adjusting the picture setting

**1 Press SELECT until the item you want to adjust appears.**

Each time you press SELECT, the screen changes as follows:




**2 Press +/– to adjust the item.**

**3 To adjust other items, repeat steps 1 and 2.**

**Note**
- You can also use SELECT and +/– on the TV to adjust the picture setting.

***Front of TV***

**If the picture color is abnormal when receiving programs through the (antenna) terminal**
Change the "TV SYSTEM" (for KV-J21MF2J/J14M1J) or "COLOR SYSTEM" setting or adjust the "COLOR" level in the on-screen display until the color becomes normal.

**If the picture is abnormal when receiving programs through the (video input) jack**
Change the "COLOR SYSTEM" setting or adjust the "COLOR" level in the on-screen display until the color becomes normal.

**Note**
- Normally set "COLOR SYSTEM" to "AUTO".

**If the sound is distorted or noisy when receiving programs through the (antenna) terminal**
Change the "TV SYSTEM" setting (for KV-J21MF2J/J14M1J) in the on-screen display until the sound becomes clear.

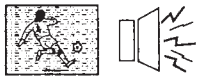




# Troubleshooting

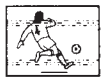
If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.
If the problem persists after trying the methods below, contact your nearest authorized service center or dealer.

**Snowy picture**
**Noisy sound**



➡Check the antenna.
➡Check the antenna connection on the TV and on the wall.
➡Check the TV SYSTEM setting (for KV-J21MF2J/J14M1J).

**Dotted lines or stripes**

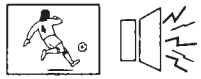


➡This may be caused by local interference (e.g. cars, neon signs and hair dryers). Adjust the antenna for minimum interference.

**Double images or "ghosts"**

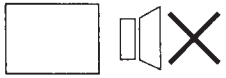
➡This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

**Good picture**
**Noisy sound**



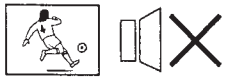
➡Check the TV SYSTEM setting (for KV-J21MF2J/J14M1J).

**No picture**
**No sound**



➡Press ⏻ or ⏻.
➡Check the antenna connection.
➡Check the VCR connections.
➡Check the power cord connection.
➡Check the standby mode.

**Good picture**
**No sound**



➡Press +.
➡Press .

**No color**

➡Adjust the COLOR level in the on-screen display.
➡Check the COLOR SYSTEM setting.

**TV cabinet creaks**

➡Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

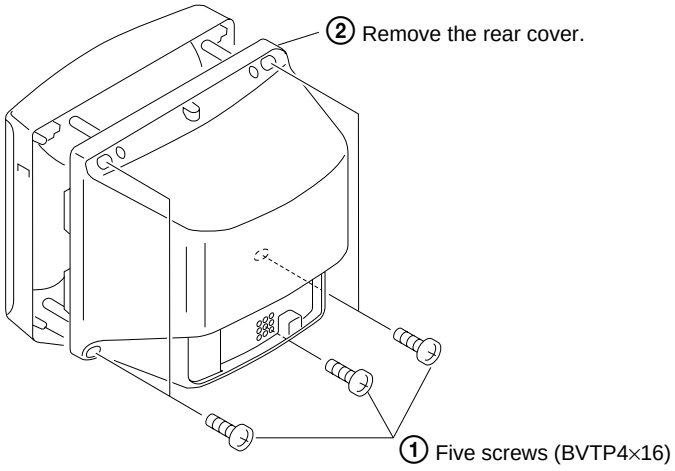
**Note on the remote commander**
- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. ☰ and SOUND MODE.

**Notes**
- When you turn on the TV, you may hear the "boon" sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press ⏻ on the TV to turn off the TV for five minutes and then turn it on again.
- Design and specifications are subject to change without notice.
- All contents in the instruction manual are subject to change without notice.

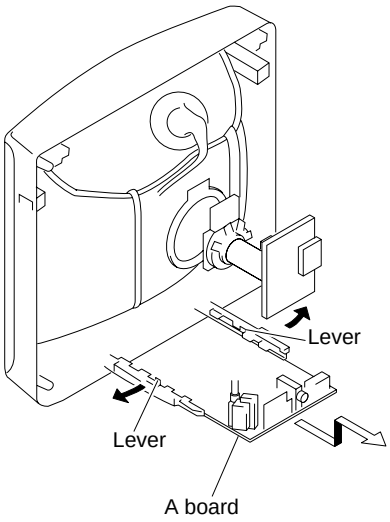
**WARNING**
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

# SECTION 2
# DISASSEMBLY

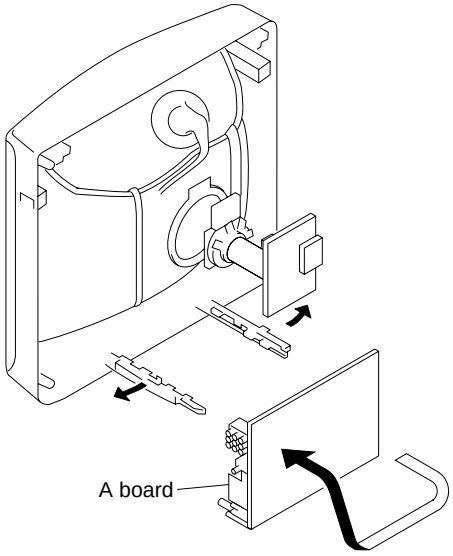
## 2-1. REAR COVER REMOVAL




## 2-2. A BOARD REMOVAL



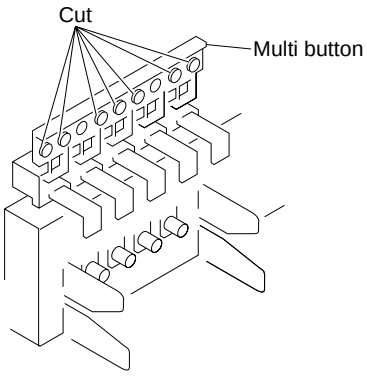

## 2-3. SERVICE POSITION

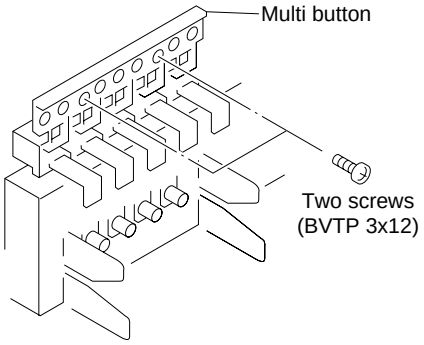



## 2-4. REPLACEMENT OF PARTS

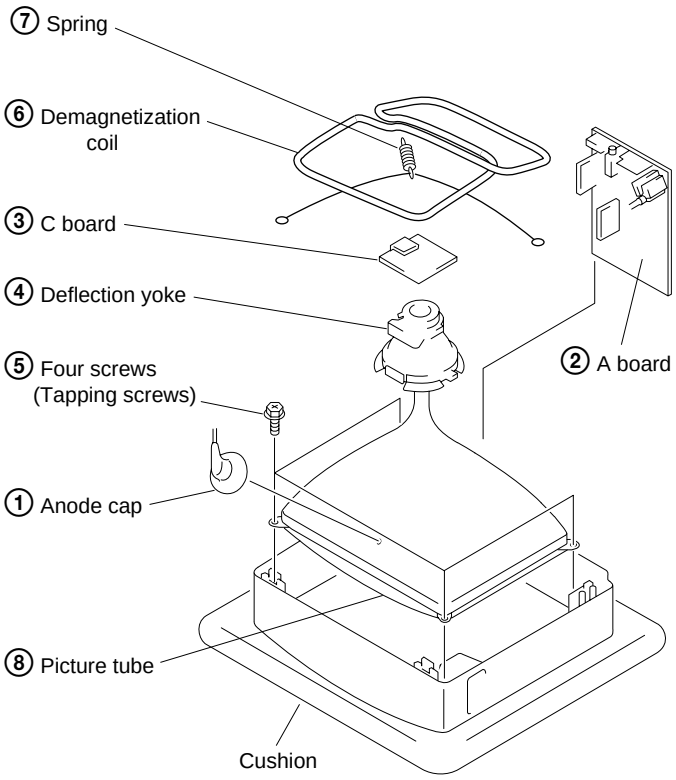
For replacement of the Control Button, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

### 2-4-1. REPLACEMENT OF CONTROL BUTTON



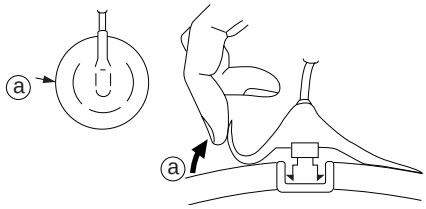
## 2-5. DEMAGNETIZATION COIL AND PICTURE TUBE REMOVAL



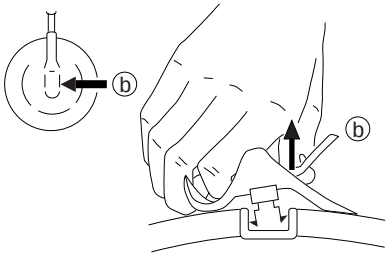

### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

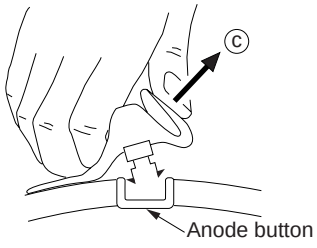
### • REMOVING PROCEDURES




① **Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.**



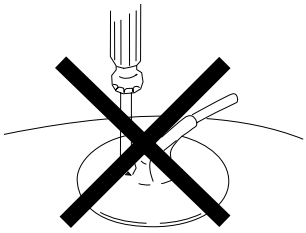

② **Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.**

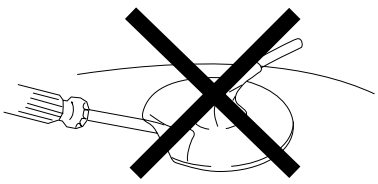



③ **When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.**

- **HOW TO HANDLE AN ANODE-CAP**

① **Don't hurt the surface of anode-caps with sharp shaped objects!**
② **Don't press the rubber too hard so as not to damage the inside of anode-caps!**
**A material fitting called the shatter-hook terminal is built into the rubber.**
③ **Don't turn the foot of rubber over too hard!**
**The shatter-hook terminal will stick out or damage the rubber.**





# SECTION 3
# SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control ..... normal

BRIGHTNESS control ..... normal

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

**Note :** Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

**Preparations :**

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

## 3-1. BEAM LANDING

1. Input the white raster signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Set the pattern generator raster signal to green.
3. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 3-1 through 3-3.)
4. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-1.)
5. Switch the raster signal to blue, then to red and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 3-4.)

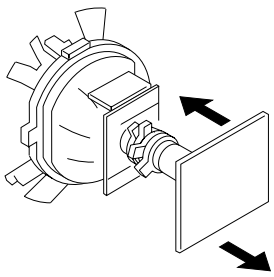


**Fig. 3-1**

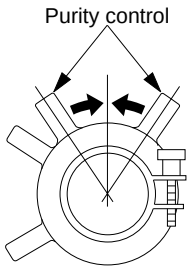



**Fig. 3-2**

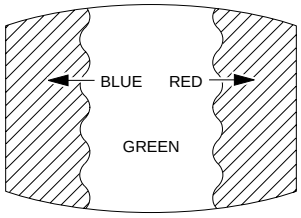



**Fig. 3-3**

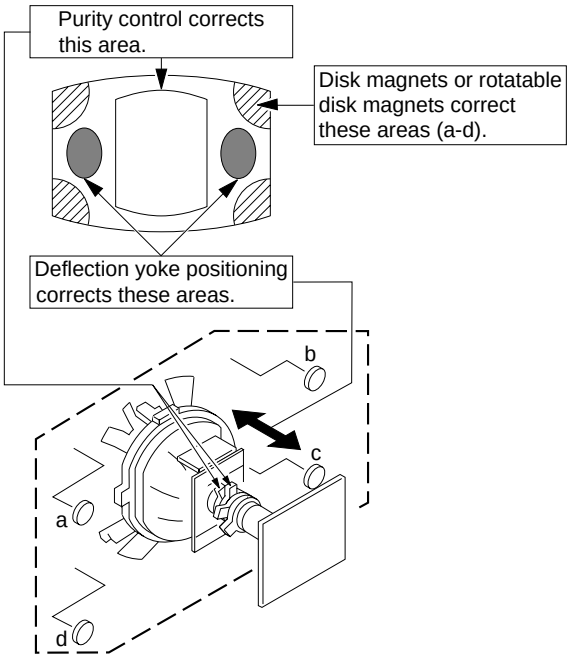


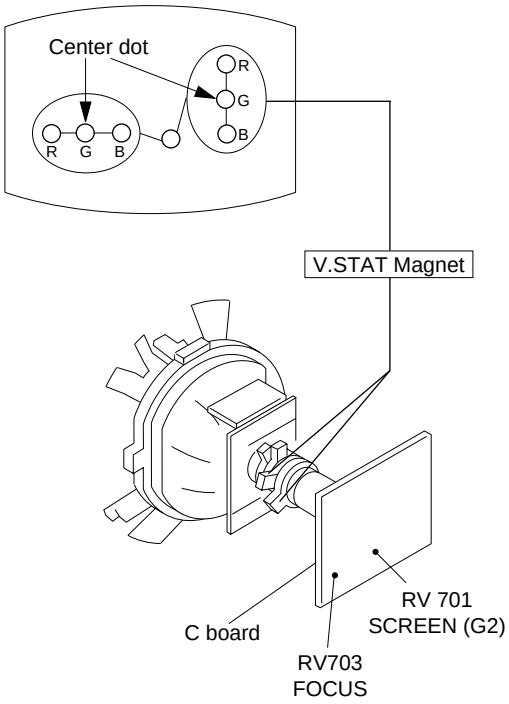

**Fig. 3-4**

## 3-2. CONVERGENCE

**Preparation :**

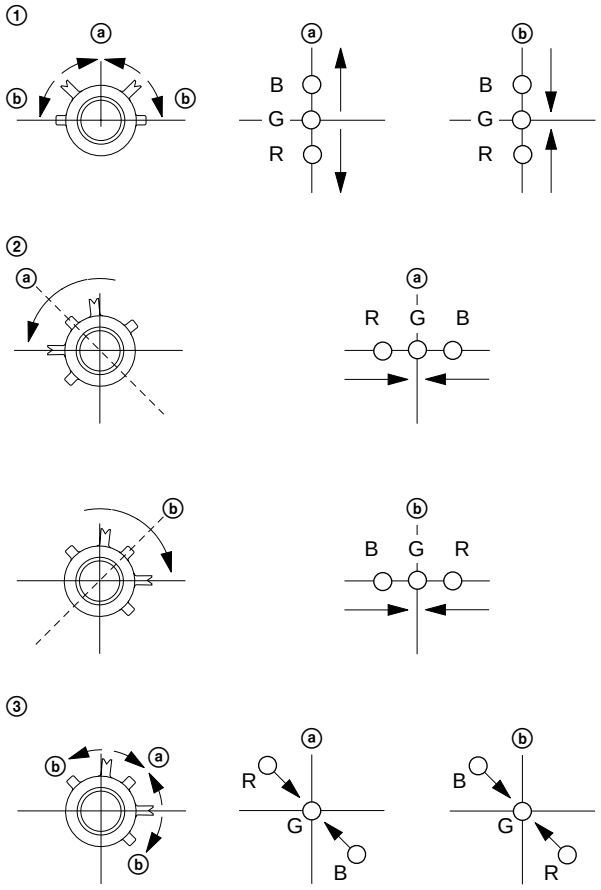
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

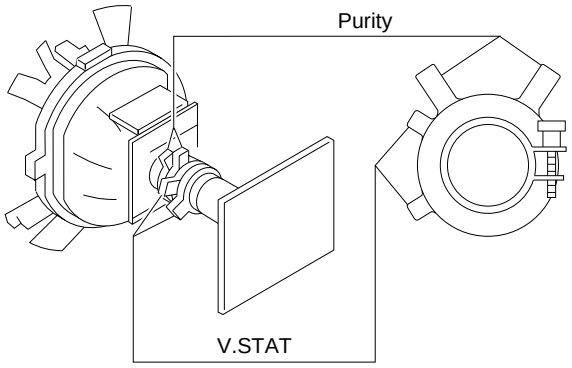
**(1) Horizontal and Vertical Static Convergence**




1. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.



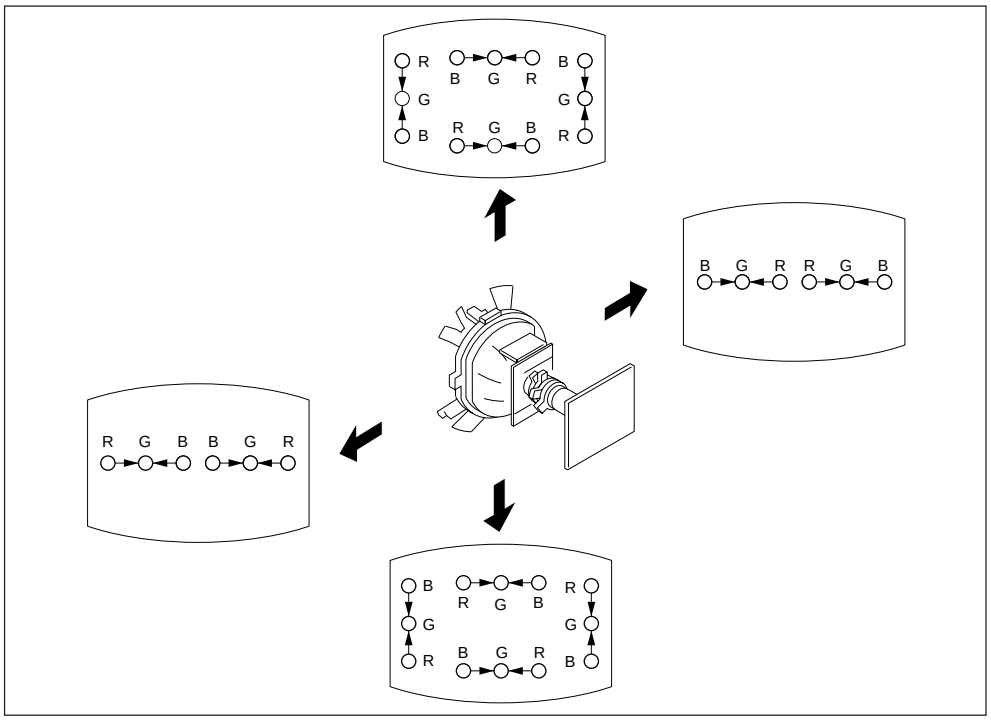



**(2) Dynamic Convergence Adjustment**

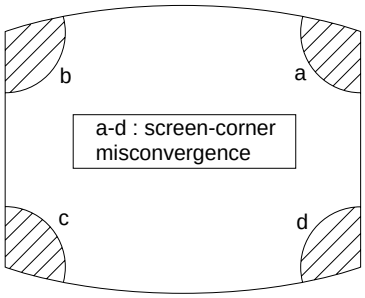
**Preparation :**

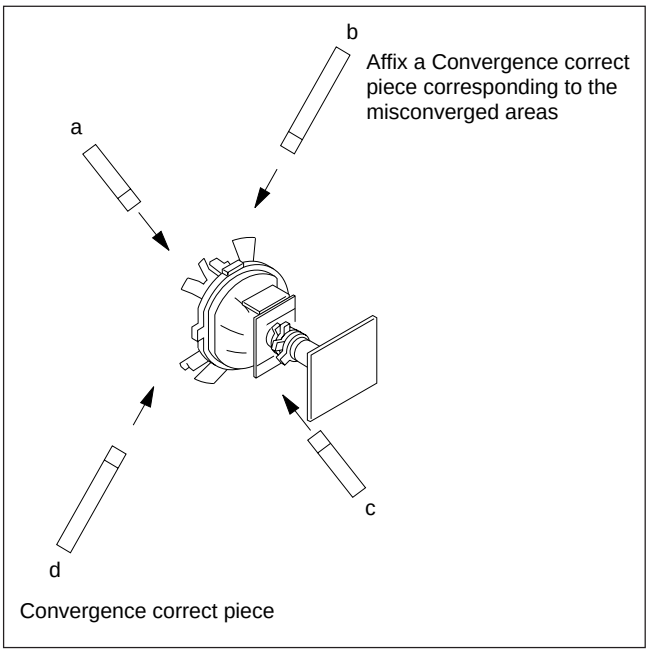
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



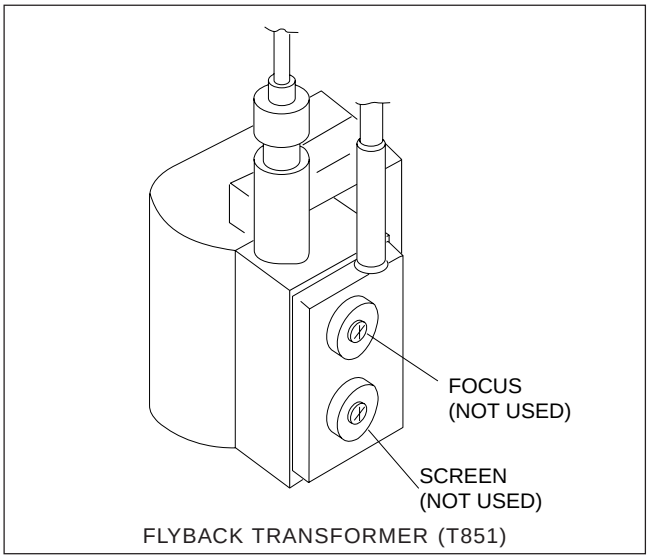

**(3) Screen-corner Convergence**



## 3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the C board (RV703) for the best focus.




FLYBACK TRANSFORMER (T851)

**Note**: Screen VR is not used.

### a. AN ITEM OF ADJUSTMENT

| Item number | Adjustment item | Initial DATA | Note |
|---|---|---|---|
| 09 | RDR | 25 | WHITE POINT R |
| 0A | GDR | 20 | WHITE POINT G |
| 0B | BDR | 20 | WHITE POINT B |

### b. METHOD OF CANCELLATION FROM SERVICE MODE

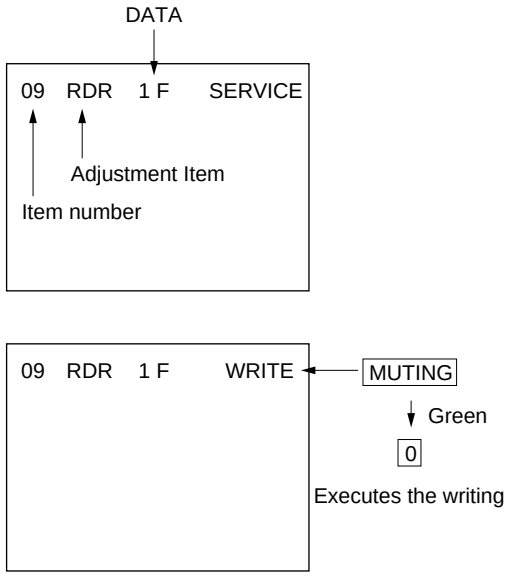
Set the standby condition (Press [POWER] button on the commander) and then press [POWER] button again, hereupon it becomes TV mode.

### c. METHOD OF WRITE FOR MEMORY

1) Set to Service Mode.
2) Press [1] (UP) and [4] (DOWN), select the item for adjustment.
3) Press [MUTING] button indicate WRITE (Green) on screen.
4) Press [0] button to write into memory.

### d. MEMORY WRITE CONFIRMATION METHOD

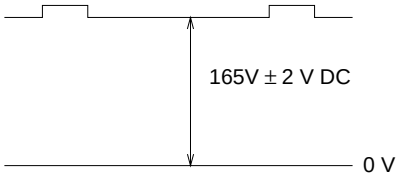
1) After adjustment, pull out the plug from the AC outlet, and then plug into the AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.




## 3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

### 1. G2 (SCREEN) ADJUSTMENT (RV701)

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G, and B of the C board cathode to the oscilloscope.
4) Adjust G2 (RV701) volume to the value below.




### 2. WHITE BALANCE ADJUSTMENTS

1) Set to Service Mode.
2) Input an entire white signal.
3) Set the PICTURE to maximum.
4) Select RDR(09) with [1] and [4] , and then set the level to 25 with [3] and [6] .
5) Select GDR(0A) and BDR(0B) with [1] and [4] and adjust the level with [3] and [6] for the best white balance.
6) Write into the memory by pressing [MUTING] then [0] .

# SECTION 4
# SELF DIAGNOSIS FUNCTION

If no acknowledgement is returned from a device which is turned "ON", the device has a problem.
In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ms each time.

The flickering frequency responding to each failed device is shown below.

| **Board name** | A Board | A Board |
|---|---|---|
| **Ref. No.** | IC003 | IC300 |
| **Device** | NONVOLATILE MEMORY (ST24C04FB6) | Y/C JUNGLE (TDA8374A) |
| **Flickering Frequency** | 1 | 3 |

All the devices are checked one after another from the left of the table.
If an error is found, the responding LED will start flickering.
So, if more than 1 device have failed, only the one on the left side will flicker.

# SECTION 5
# CIRCUIT ADJUSTMENTS

## 5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-869 that comes with this unit.

**Entering service mode**

With the unit on standby

↓

[DISPLAY]

↓

[5]

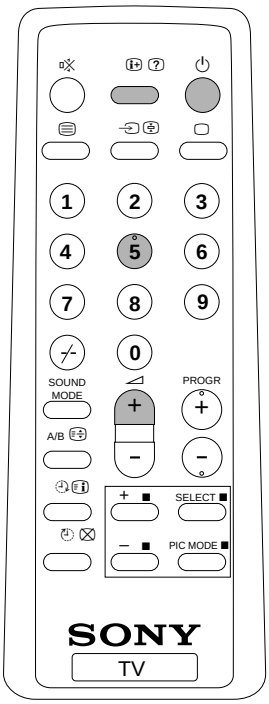
↓

[VOL (+)]

↓

[POWER]

The operation sequence puts the unit into service mode.

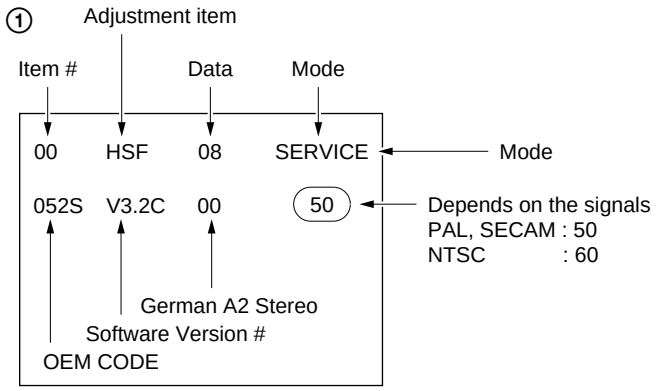



**RM-869**

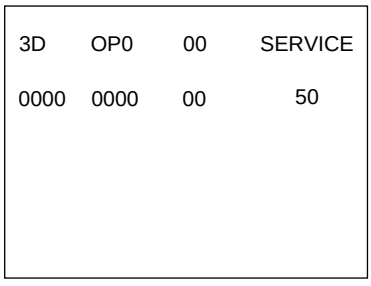
| | |
|---|---|
| [1], [4] | Raise/lower the service item number |
| [3], [6] | Raise/lower the data |
| [MUTING] | Writes |
| [0] | Executes the writing |

| | |
|---|---|
| [7], [0] | All data becomes the values in memory |
| [8], [0] | All user control goes to the standard state |
| [5], [0] | Service data initialization (Be sure not to use usually.) |
| [2], [0] | Write 50Hz adjustment data to 60Hz, or viceversa. |

**The screen display is :**




②




(Bit options adjustable)

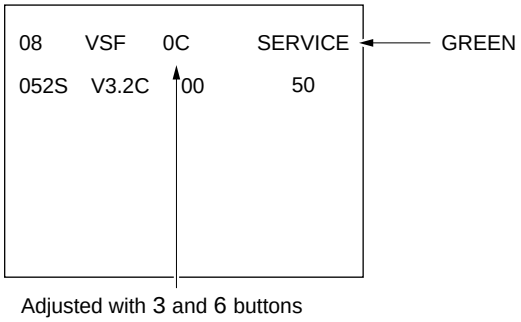
| | |
|---|---|
| [1], [4] | Select the adjustment item. |
| ↓ | |
| [3], [6] | Raise/lower the data. |
| ↓ | |
| [MUTING] | Writes |
| ↓ | |
| [0] | Executes the writing. |

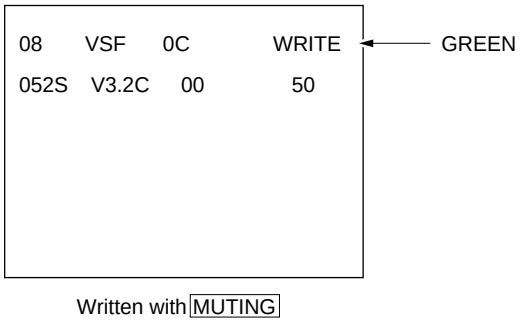
## 5-2. ADJUSTMENT METHOD

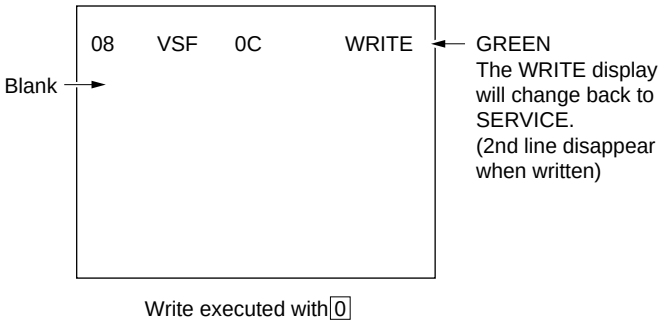
Item Number 08

This explanation uses V-SHIFT as an example.

1. Select 08 V-SHIFT with the 1 and 4 buttons.
2. Raise/lower the data with the 3 and 6 buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the MUTING button.
5. Execute the writing with the 0 button. (The WRITE display returns to green SERVICE.)




Use the same method for Items Number 00-40. Use 1 and 4 to select the adjustment item, use 3 and 6 to adjust, write with MUTING, then execute the write with 0.

**Adjustment Item Table**

| Item No. | Adj Item | Initial Data | Note for Different Data | Standard Data | Function | Device |
|---|---|---|---|---|---|---|
| 00 | HSF | 24 | 50/60Hz/RGB 50/RGB 60 | 1F/28/1F/28 | H Shift | F |
| 01 | HSZ | 23 | 50/60Hz/RGB 50/RGB 60 | 20/20/20/20 | H Size | |
| 02 | PAP | 21 | 50/60Hz | 20/20 | Pin Amplitude | |
| 03 | CNP | 29 | 50/60Hz | 20/20 | Corner Pin | |
| 04 | TLT | 20 | 50/60Hz | 20/20 | Tilt | |
| 05 | VSL | 20 | 50/60Hz | 1F/1F | V Slope | |
| 06 | VAP | ID | 50/60Hz | 2A/2A | V Amplitude | |
| 07 | SCR | 20 | 50/60Hz | 15/15 | S Correction | |
| 08 | VSF | 20 | 50/60Hz | 23/23 | V Shift | |
| 09 | RDR | 25 | | | R Drive | |
| 0A | GDR | 20 | | | G Drive | |
| 0B | BDR | 20 | | | B Drive | |
| 0C | FO | 00 | TV/Video/Teletext | 00/00/00 | ø1 Time Constant | |
| 0D | AGC | 06 | TV/Video/Teletext | 28/28/28 | AGC Take Over | |
| 0E | VSW | 0 | TV/Video/Teletext | 0/1/0 | Video Mute Switch | |
| 0F | FOR | 00 | | 03 | Forced Field Frequency | |
| 10 | DL | 0 | | | De-interlace | |
| 11 | POC | 0 | | | Fixed ø1 Synchro. mode | |
| 12 | COR | 0 | TV/Video/Teletext | 01/00/00 | Noise Coring | |
| 13 | VPX | 00 | | | Extra Bits (see below) | |
| 14 | PMX | 27 | TV/Video/Teletext | 20/20/20 | Picture Maximum Data | |
| 15 | PMI | 05 | | 04 | Picture Minimum Data | |
| 16 | SBR | 4B | | | Sub Brightness | |
| 17 | SHU | 07 | | | Sub Hue | |
| 18 | SSH | 01 | TV/Video | 01/03 | Sub Sharpness | |
| 19 | SC1 | 1F | 50/60Hz | 26/29 | Sub Color Lower | |
| 1A | SC2 | 0B | 50/60Hz | 0C/0D | Sub Color Higher | |
| 1B | AIP | 40 | | 3F | Adjustment IF-PLL | |
| 1C | VZM | 20 | | 19 | Vertical Zoom | |
| 1D | WST | 15 | | | W/G Stereo Threshold | |
| 1E | WBT | EA | | | W/G Bilingual Threshold | |
| 1F | WLL | 05 | | | W/G Monaural Threshold | |
| 20 | ACG | 1 | | | AGC Switch auto/constant | |
| 21 | CDB | 28 | | | AGC Gain at Constant Mode | |
| 22 | FGP | 1B | | | FM Prescale for B/G.I.D/K | |
| 23 | FMP | 32 | | | FM Prescale for M | |
| 24 | FMH | 36 | | | FM Prescale for HDEV Mode | |
| 25 | FMM | 65 | | | FM Prescale for HDEV Mode | |
| 26 | WGP | 2A | | | W/G Prescale | |
| 27 | NIP | 6D | | | NICAM Prescale | |
| 28 | SCP | 3B | | | SCART Input Prescale | |
| 29 | SCV | 2A | | | SCART Output Prescale | |
| 2A | CRM | 0 | | | Carrier Muting on/off | |
| 2B | ACO | 1 | | | Audio Clock-out on/off | |
| 2C | WAC | 00 | | | W/G Agreement Count | |
| 2D | NFT | 50 | | | Auto FM Switch Threshold | |
| 2E | DLG | 30 | | | W/G Search Delay | |
| 2F | DLN | 20 | | | NICAM Search Delay | |
| 30 | DLS | 10 | | | Stereo Status Read Delay | |
| 31 | SMX | 73 | | | DFP Volume Maximum | |
| 32 | ING | 00 | M System/non-M/Video | | Input Gain | |
| 33 | VOM | 01 | M System only | | Volume Output Gain | |
| 34 | TXH | 01 | | | Teletext Horizontal Position | |
| 35 | BKP | 00 | | | Picture Data at Blanking OFF | |
| 36 | ODL | 10 | | | Power ON Delay | |
| 37 | OFR | 00 | | | RGB Output Time (STBY OFF) | |
| 38 | OFM | 00 | | | RGB Output Time (AC OFF) | |

| Item No. | Adj Item | Initial Data | Note for Different Data | Standard Data | Function | Device |
|---|---|---|---|---|---|---|
| 39 | OSH | 0A | | | OSD H Position | |
| 3A | DKS | 1 | | 0 | D/K Stereo enable/disable | |
| 3B | MUT | 0 | | | Muting on/off at No Sync | |
| 3C | ABL | 0 | | | Bright ABL Switch | |
| 3D | SCM | 0 | | | SECAM Trap active/inactive | |
| 3E | FBT | 1 | | | FBT L/S C/M strict/plain | |
| 3F | OP0 | 2F | | | Optional Flags 0 (see below) | |
| 40 | OP1 | 0F | | | Optional Flags 1 (see below) | |
| 41 | OP2 | 00 | | 20 | Optional Flags 2 (see below) | |

**NOTE**

- Note for Different Data — Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 ..... 50 Hz data
- 60 ..... 60 Hz data
- Note for Different Data listed on the adjustment item table are reference values, therefore it is different for every model.

**Option Note**

| 13. VPX | bit 7 | bit 6 | bit 5 | bit 4 | bit 3 | bit 2 | bit 1 | bit 0 |
|---|---|---|---|---|---|---|---|---|
| Item | HCO | EVG | SBL | PRD | – | – | – | VID |
| Initial data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | |
|---|---|---|---|
| HCO | EHT Tracking Mode | 1 = on V and E–W, 0 = only on V | 0A (7) |
| EVG | Enable Vertical Guard | 1 = enable, 0 = disable | 0A (6) |
| SBL | Service Blanking | 1 = active, 0 = inactive | 0B (7) |
| PRD | Over-voltage Protection Detection | 1 = enable, 0 = disable | 0B (6) |
| VID | Video Ident Mode | 1 = not for ø1-loop, 0 = for ø1-loop | 09 (7) |

| 3A. OP0 | bit 7 | bit 6 | bit 5 | bit 4 | bit 3 | bit 2 | bit 1 | bit 0 |
|---|---|---|---|---|---|---|---|---|
| Item | No TOP | AV input | | AVMUT | B/G | I | D/K | M |
| Initial data | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |

AV Input 0 0 no AV input model 0 1 1 AV input model
1 0 2 AV input model 1 1 2 AV input and RGB input model
No TOP (for teletext model) 1 = only FLOF available, 0 = both FLOF and TOP available
AVMUT 1 = AV multi is always muted if no signal input, 0 = not muted always
Other optional bits are effective if set to 1.

| 3B. OP1 | bit 7 | bit 6 | bit 5 | bit 4 | bit 3 | bit 2 | bit 1 | bit 0 |
|---|---|---|---|---|---|---|---|---|
| Item | – | – | HDEV | 1 V-Curve | XTAL SEL | | SECAM | 2nd Lang. |
| Initial data | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |

XTAL SEL 0 0 only 4.43 XTAL 0 1 only 3.58 XTAL
1 0 (not used) 1 1 both 4.43 and 3.58 XTAL
1 V-Curve (for monaural model)
1 = using common volume curve for every mode and every TV system
0 = another volume curve available for video mode and M system
HDEV 1 = High Deviation Mode switch available, 0 = not available
Other optional bits are effevctive if set to 1.

| 3C. OP2 | bit 7 | bit 6 | bit 5 | bit 4 | bit 3 | bit 2 | bit 1 | bit 0 |
|---|---|---|---|---|---|---|---|---|
| Item | – | – | No Bal. | TV Out | Hotel | VM | D.B.F.B. | Thai Bil. |
| Initial data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

No Bal. (for AV stereo model) 1 = no balance in analog select items, 0 = balance included
Other optional bits are effective if set to 1.
Hotel TV mode should be switched with remote commander from STBY condition as below.
Hotel TV on : push “display”, “8”, “vol +” and “power” sequentially
Hotel TV off : push “display”, “8”, “vol –” and “power” sequentially

## 5-3. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.

2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.

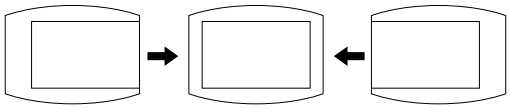
3. Call each item number, and check if the respective screen shows the normal picture.
   In case some items are not well-adjusted, give them fine adjustment.
   Write the data per each item number ([MUTING] + [0] ).
4. Select item numbers “3E” (OP0), “3F” (OP1) and “40” (OP2) and respectively set the bit per model with command buttons [3] and [6].

5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
   (= Cancel Service Mode.)

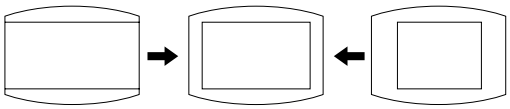
## 5-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

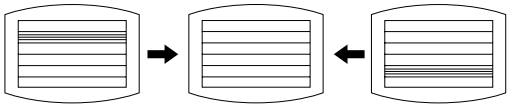
00 HSF (H SHIFT)



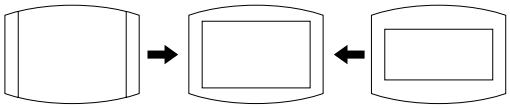
01 HSZ (H SIZE) A BOARD (L807)



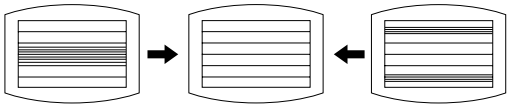
05 VSL (V SLOPE)



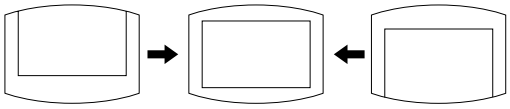
06 VAP (V AMPLITUDE)



07 SCR (S CORRECTION)

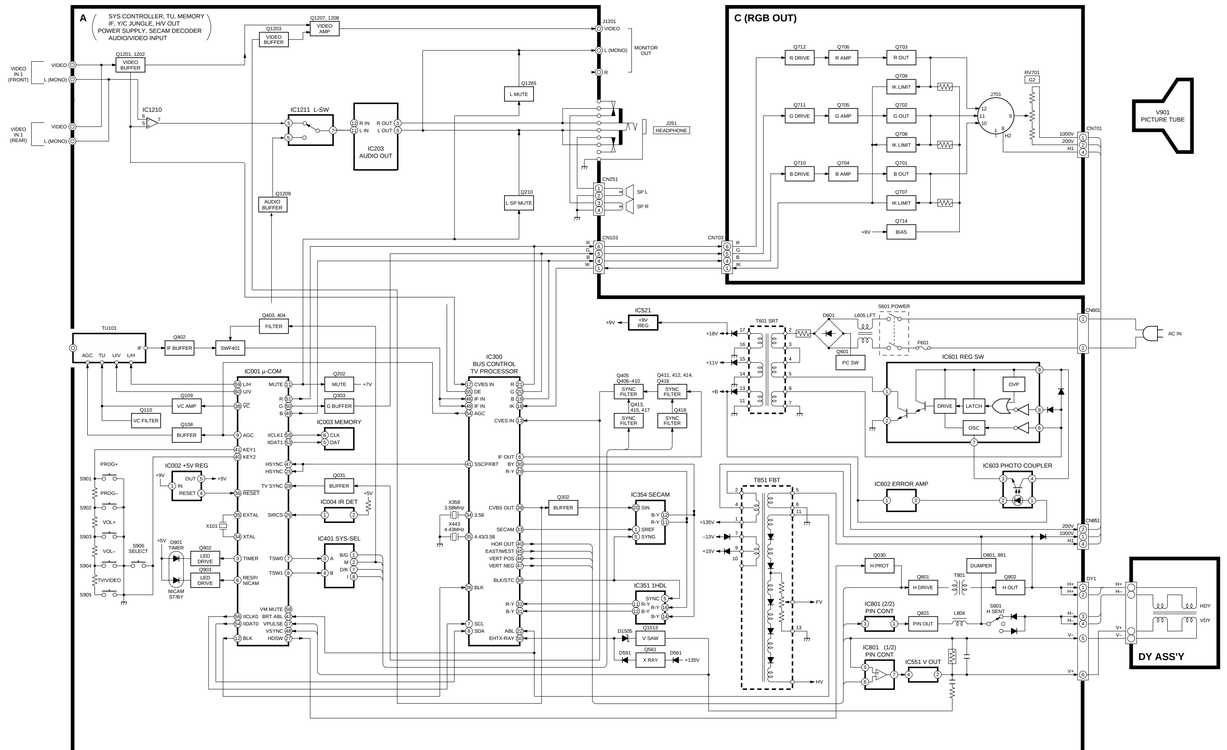


08 VSF (V SHIFT)



# SECTION 6
# DIAGRAMS

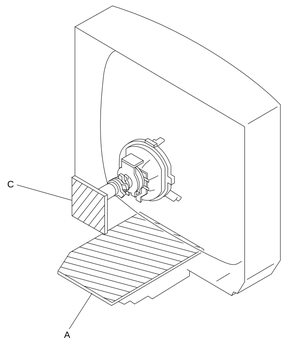
## 6-1. BLOCK DIAGRAM








## 6-2. CIRCUIT BOARDS LOCATION




## 6-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

**Note:**

- All capacitors are in µF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W (CHIP: 1/10W)
- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
  no mark : PAL
  ( ) : SECAM
  [ ] : NTSC 3.58
  « » : NTSC 4.43
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- : Can not be measured.
- Circled numbers are waveform reference.
- : B + bus.
- : B – bus.
- : signal path.

**Reference information**

| | | |
|---|---|---|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPRD | NONFRAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RS | NONFLAMMABLE METAL OXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| | : RW | NONFLAMMABLE WIREWOUND |
| | : * | ADJUSTMENT RESISTOR |
| COIL | : LF-8L | MICRO INDUCTOR |
| CAPACITOR | : TA | TANTALUM |
| | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |

**Note:The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**



**Terminal name of semiconductors in silk screen printed circuit ( ✳ )**

| | Device | Printed symbol | Terminal name | Circuit |
|---|---|---|---|---|
| ① | Transistor | | Collector / Base / Emitter | |
| ② | Transistor | | Collector / Base / Emitter | |
| ③ | Diode | | Cathode / Anode | |
| ④ | Diode | | Cathode / Anode (NC) | |
| ⑤ | Diode | | Cathode / Anode (NC) | |
| ⑥ | Diode | | Common Anode / Cathode | |
| ⑦ | Diode | | Common Anode Cathode | |
| ⑧ | Diode | | Common Anode / Anode | |
| ⑨ | Diode | | Common Anode Anode | |
| ⑩ | Diode | | Common Cathode / Cathode | |
| ⑪ | Diode | | Common Cathode Cathode | |
| ⑫ | Diode | | Anode Cathode / Anode Anode / Cathode Anode | |
| ⑬ | Transistor (FET) | | Drain / Source / Gate | |
| ⑭ | Transistor (FET) | | Drain / Source / Gate | |
| ⑮ | Transistor (FET) | | □ Source □ Drain □ Gate | |
| ⑯ | Transistor | | □ Emitter □ Collector □ Base | |
| ⑰ | Transistor | | C1 B1 E1 / E1 B2 C1 | B1 C1 E1 B2 C2 E2 |
| ⑱ | Transistor | | C1 B2 E2 / E1 B1 C2 | B1 C1 E1 B2 C2 E2 |
| ⑲ | Transistor | | C1 B2 E2 / E1 B1 C2 | B1 C1 E1 B2 C2 E2 |
| ⑳ | Transistor | | C1 B2 E2 / E1 B1 C2 | B1 C1 E1 B2 C2 E2 |
| ㉑ | Transistor | | E2 B1 E1 / C2 (GND) C1 | B1 C1 E1 B2 C2 E2 |
| ㉒ | Transistor | | (B2) B1 E1 / C2 C1 | B1 C1 E1 B2 C2 E2 |
| ㉓ | Transistor | | (B2) E2 B1 / C2 C1 | B1 C1 E1 B2 C2 E2 |
| – | Discrete semiconductor | | | |

(Chip semiconductors that are not actually used are included.)

Ver.1.5

**PRINTED WIRNING BOARD**

**A BOARD**

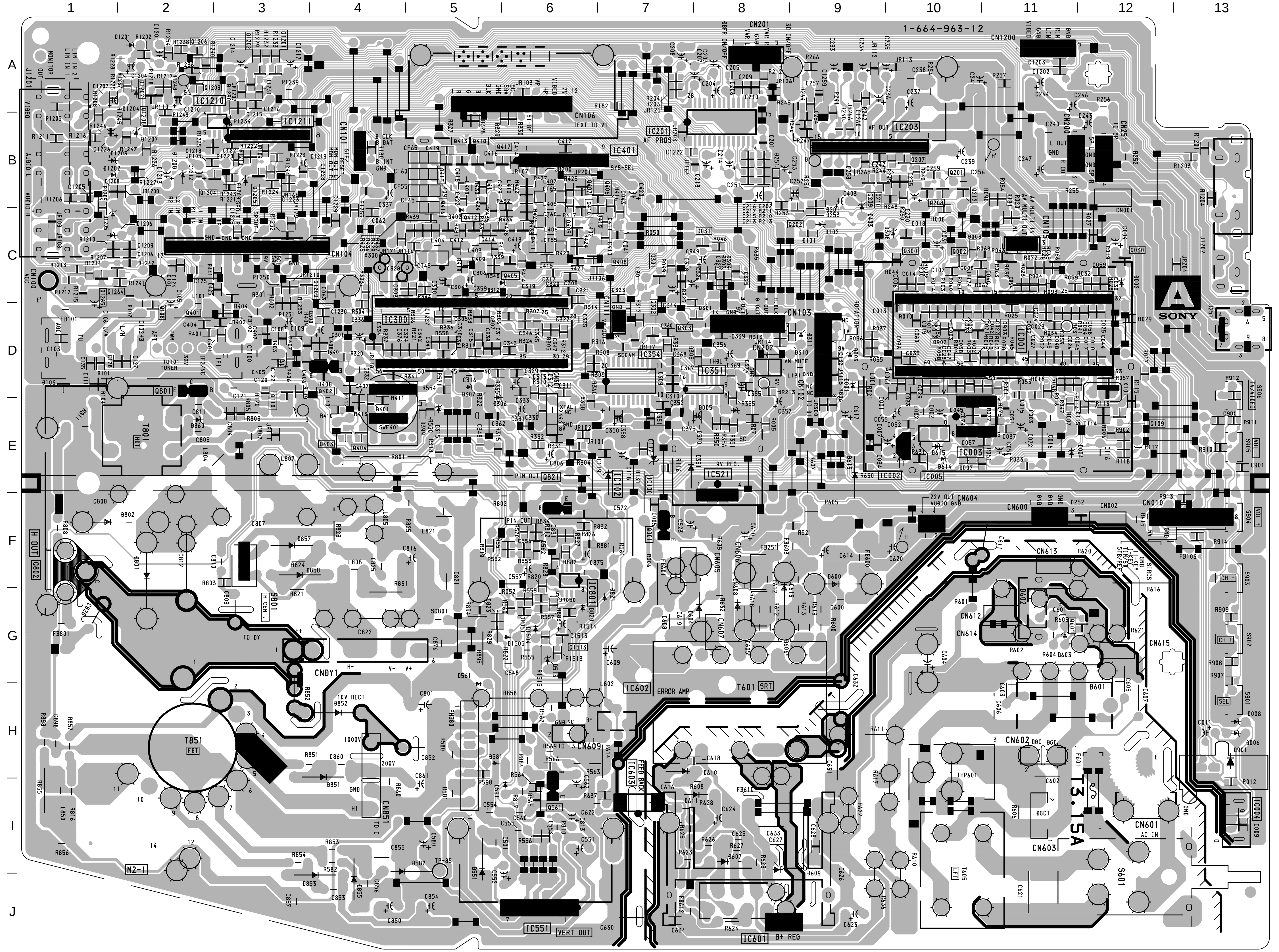
| IC | |
|---|---|
| IC001 | D–11 |
| IC002 | E–10 |
| IC003 | E–10 |
| IC004 | I–13 |
| IC100 | E–7 |
| IC203 | B–10 |
| IC300 | D–4 |
| IC351 | D–8 |
| IC354 | D–7 |
| IC401 | B–7 |
| IC521 | E–8 |
| IC551 | J–6 |
| IC601 | J–8 |
| IC602 | H–7 |
| IC603 | H–7 |
| IC801 | F–6 |
| IC1210 | A–2 |
| IC1211 | B–3 |

| TRANSISTOR | | * |
|---|---|---|
| Q030 | C–12 | (1) |
| Q108 | D–2 | (1) |
| Q109 | E–12 | (1) |
| Q110 | E–3 | (1) |
| Q202 | C–9 | (1) |
| Q207 | B–10 | (1) |
| Q208 | B–10 | (1) |
| Q210 | B–10 | (1) |
| Q301 | C–7 | (1) |
| Q303 | D–8 | (1) |
| Q402 | D–4 | – |
| Q403 | E–4 | (1) |
| Q404 | E–4 | (1) |
| Q405 | C–6 | (1) |
| Q407 | B–6 | (1) |
| Q408 | C–7 | (1) |
| Q409 | C–6 | (1) |
| Q410 | C–6 | (1) |
| Q411 | C–6 | (1) |
| Q412 | C–5 | (1) |
| Q413 | B–5 | (1) |
| Q414 | C–5 | (1) |
| Q415 | B–5 | (1) |
| Q416 | C–5 | (1) |
| Q417 | B–6 | (1) |
| Q418 | B–5 | (1) |
| Q561 | I–6 | – |
| Q801 | D–2 | – |
| Q802 | F–1 | – |
| Q821 | E–6 | – |
| Q902 | D–10 | (1) |
| Q903 | D–11 | (1) |
| Q1201 | A–3 | (1) |
| Q1202 | A–3 | (1) |
| Q1203 | A–2 | (1) |
| Q1204 | B–2 | (1) |
| Q1207 | A–2 | (1) |
| Q1208 | B–2 | (1) |
| Q1209 | C–4 | (1) |
| Q1265 | C–1 | (1) |
| Q1513 | G–6 | (1) |

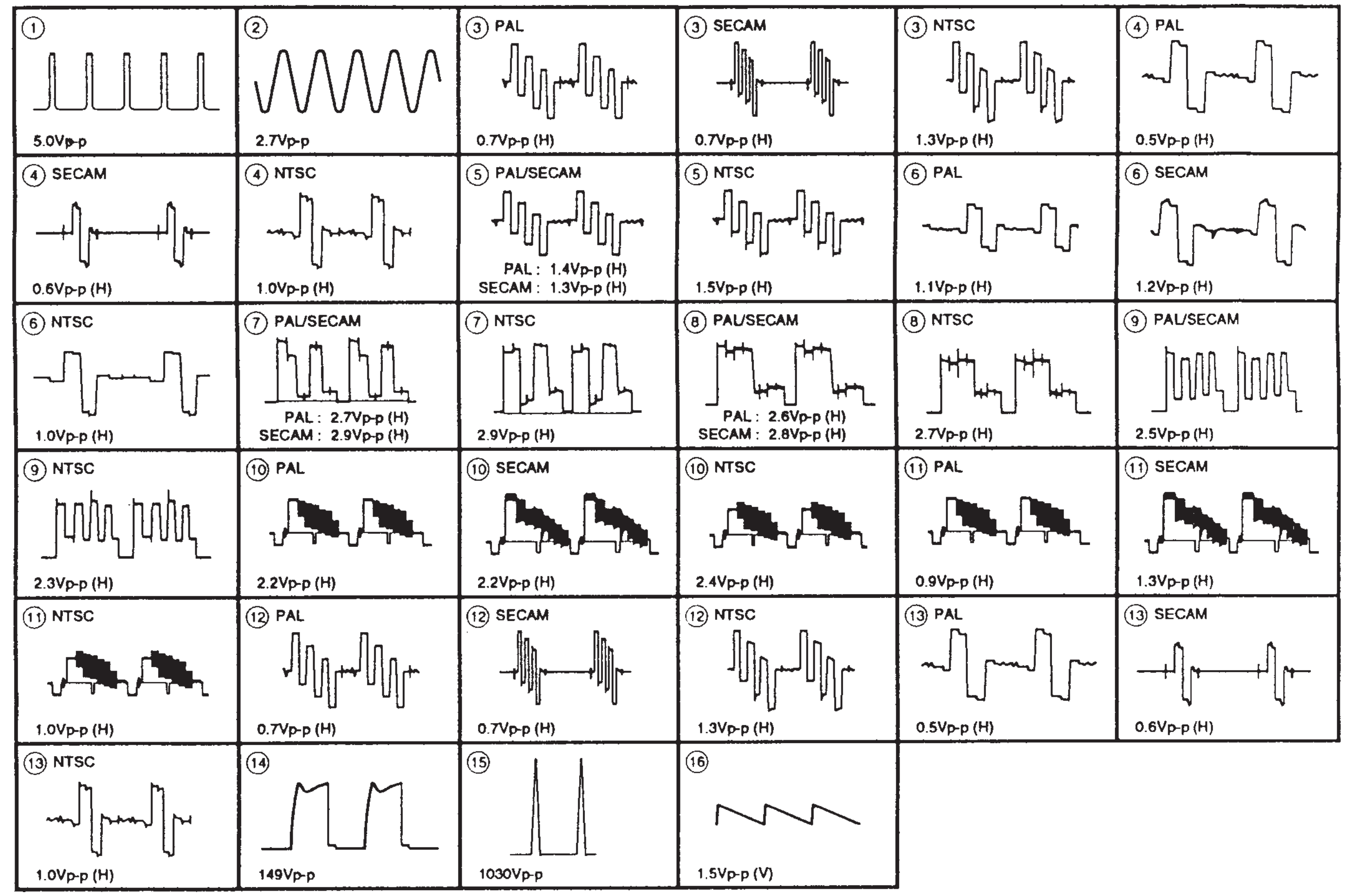
| DIODE | | * |
|---|---|---|
| D001 | D–9 | – |
| D002 | C–12 | – |
| D003 | C–10 | (3) |
| D005 | E–8 | – |
| D008 | H–13 | – |
| D103 | D–1 | (6) |
| D201 | B–9 | (3) |
| D251 | B–8 | (3) |
| D252 | F–11 | (6) |
| D253 | C–9 | (3) |
| D300 | D–4 | (3) |
| D301 | D–8 | (3) |
| D302 | C–8 | (3) |
| D304 | C–8 | (3) |
| D305 | D–8 | (3) |
| D306 | E–6 | – |
| D307 | D–5 | – |
| D308 | C–10 | – |
| D310 | D–9 | (3) |
| D311 | D–9 | – |
| D312 | C–6 | – |
| D315 | E–5 | – |
| D351 | E–7 | – |
| D399 | E–5 | (3) |
| D401 | E–4 | (3) |
| D402 | C–5 | – |
| D403 | C–9 | – |
| D513 | G–6 | – |
| D551 | I–5 | – |
| D561 | G–5 | – |
| D591 | I–5 | – |
| D601 | H–12 | – |
| D604 | G–8 | – |
| D606 | G–9 | – |
| D607 | I–8 | – |
| D609 | I–9 | – |
| D610 | H–8 | – |
| D611 | I–8 | – |
| D613 | E–9 | – |
| D801 | F–2 | – |
| D802 | F–2 | – |
| D851 | H–4 | – |
| D852 | H–4 | – |
| D853 | I–3 | – |
| D855 | J–4 | – |
| D857 | F–3 | – |
| D858 | F–4 | – |
| D860 | E–2 | – |
| D901 | H–13 | – |
| D1201 | A–2 | – |
| D1202 | B–1 | – |
| D1207 | B–2 | – |
| D1208 | B–2 | – |
| D1504 | G–6 | – |
| D1505 | G–6 | – |

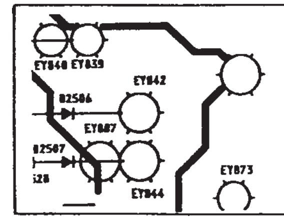
**A** [ TUNER, IF, Y/C JUNGLE, SECAM DECODER, H/V OUT, MEMORY, SYSTEM CONTROLLER, AUDIO/VIDEO IN/OUT, POWER SUPPLY ]

**– A BOARD –**



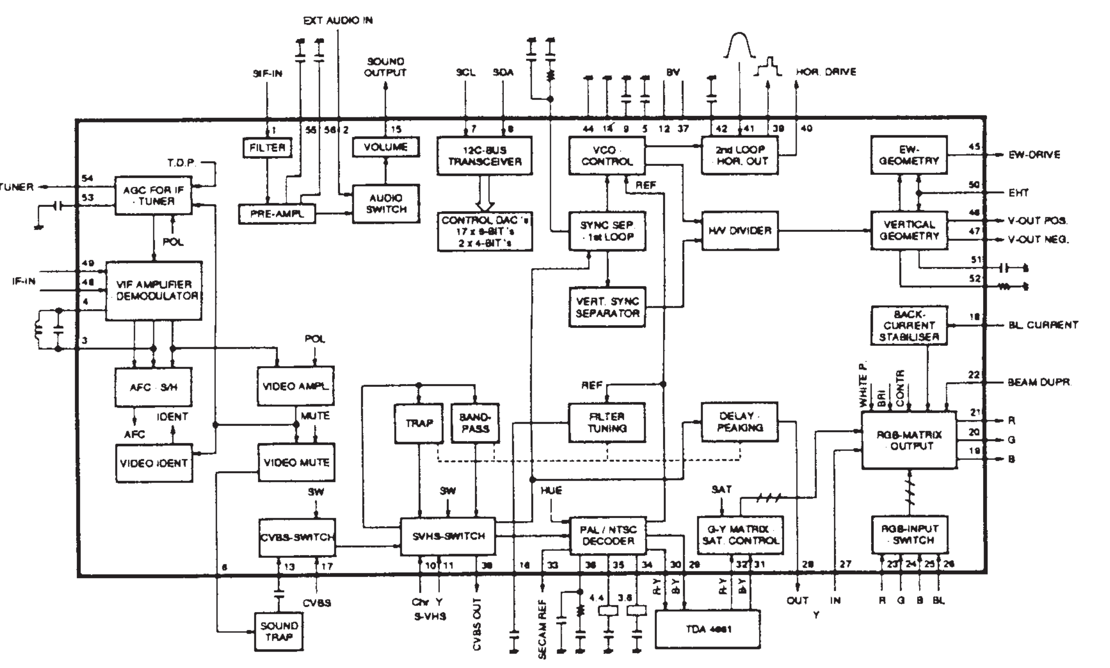

## A BOARD WAVEFORMS


① 5.0Vp-p
② 2.7Vp-p
③ PAL 0.7Vp-p (H)
③ SECAM 0.7Vp-p (H)
③ NTSC 1.3Vp-p (H)
④ PAL 0.5Vp-p (H)
④ SECAM 0.6Vp-p (H)
④ NTSC 1.0Vp-p (H)
⑤ PAL/SECAM PAL : 1.4Vp-p (H) SECAM : 1.3Vp-p (H)
⑤ NTSC 1.5Vp-p (H)
⑥ PAL 1.1Vp-p (H)
⑥ SECAM 1.2Vp-p (H)
⑥ NTSC 1.0Vp-p (H)
⑦ PAL/SECAM PAL : 2.7Vp-p (H) SECAM : 2.9Vp-p (H)
⑦ NTSC 2.9Vp-p (H)
⑧ PAL/SECAM PAL : 2.6Vp-p (H) SECAM : 2.8Vp-p (H)
⑧ NTSC 2.7Vp-p (H)
⑨ PAL/SECAM 2.5Vp-p (H)
⑨ NTSC 2.3Vp-p (H)
⑩ PAL 2.2Vp-p (H)
⑩ SECAM 2.2Vp-p (H)
⑩ NTSC 2.4Vp-p (H)
⑪ PAL 0.9Vp-p (H)
⑪ SECAM 1.3Vp-p (H)
⑪ NTSC 1.0Vp-p (H)
⑫ PAL 0.7Vp-p (H)
⑫ SECAM 0.7Vp-p (H)
⑫ NTSC 1.3Vp-p (H)
⑬ PAL 0.5Vp-p (H)
⑬ SECAM 0.6Vp-p (H)
⑬ NTSC 1.0Vp-p (H)
⑭ 149Vp-p
⑮ 1030Vp-p
⑯ 1.5Vp-p (V)

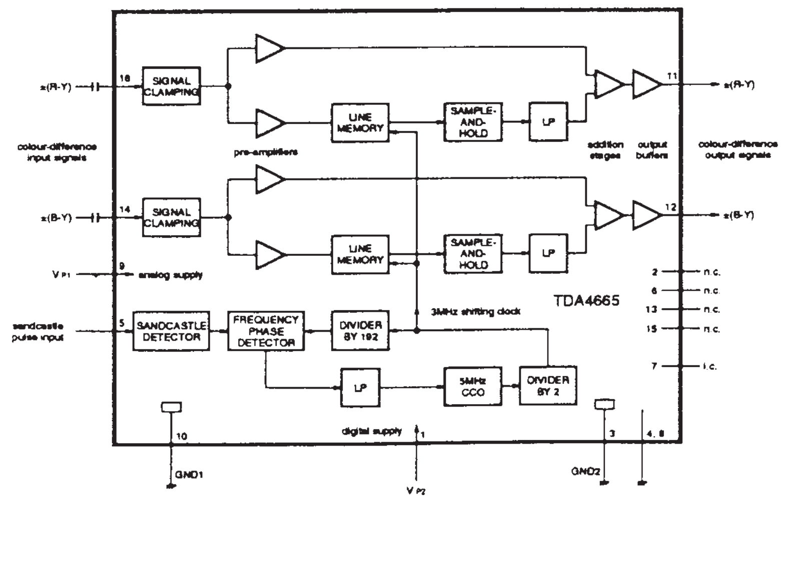


**NOTE:**
The circuit indicated as left contains high voltage of over 600 Vp-p. Please pay attention while inspecting or reparing it to prevent an electric shock.

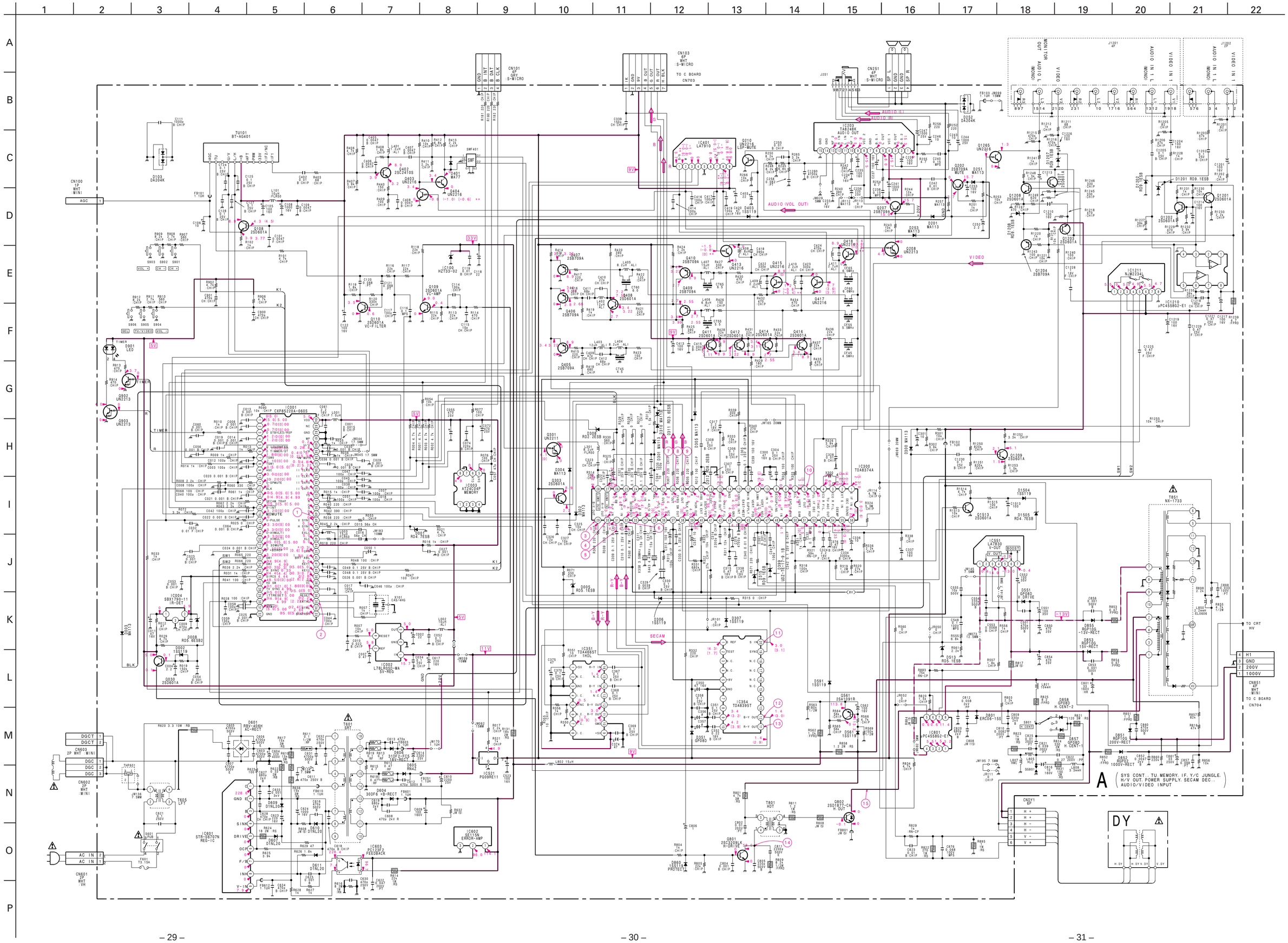
## A BOARD IC300 TDA8375A


EXT AUDIO IN
SIF-IN
SOUND OUTPUT
SCL
SDA
8V
HOR. DRIVE
FILTER
VOLUME
I2C-BUS TRANSCEIVER
VCO CONTROL
2nd LOOP HOR. OUT
EW-GEOMETRY
EW-DRIVE
EHT
T.D.P.
TUNER
AGC FOR IF TUNER
PRE-AMPL
AUDIO SWITCH
CONTROL DAC's 17 x 6-BIT's 2 x 4-BIT's
SYNC SEP 1st LOOP
H/V DIVIDER
VERTICAL GEOMETRY
V-OUT POS.
V-OUT NEG.
IF-IN
VIF AMPLIFIER DEMODULATOR
POL
VERT. SYNC SEPARATOR
BACK-CURRENT STABILISER
BL CURRENT
AFC S/H
VIDEO AMPL
BEAM DUPR
IDENT
AFC
MUTE
TRAP
BAND-PASS
FILTER TUNING
DELAY PEAKING
RGB-MATRIX OUTPUT
VIDEO IDENT
VIDEO MUTE
WHITE P.
BRI
CONTR
SW
HUE
SAT
CVBS-SWITCH
SVHS-SWITCH
PAL / NTSC DECODER
G-Y MATRIX SAT. CONTROL
RGB-INPUT SWITCH
SOUND TRAP
CVBS
Chr Y
S-VHS
CVBS OUT
SECAM REF
TDA 4661
OUT
IN
R G B BL

## A BOARD IC351 TDA4665T-T

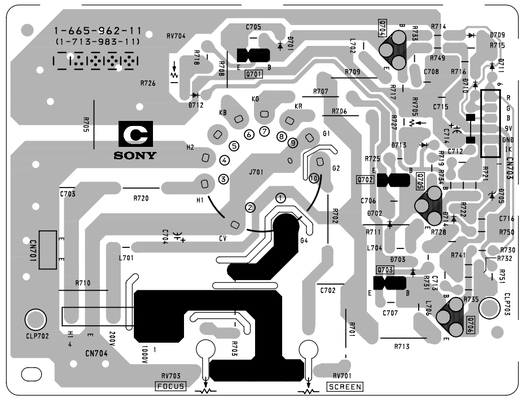

±(R-Y)
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
colour-difference input signals
pre-amplifiers
addition stages
output buffers
colour-difference output signals
±(B-Y)
VP1
analog supply
TDA4665
n.c.
i.c.
3MHz shifting clock
sandcastle pulse input
SANDCASTLE DETECTOR
FREQUENCY PHASE DETECTOR
DIVIDER BY 192
6MHz CCO
DIVIDER BY 2
digital supply
GND1
GND2
VP2

**(1) Schematic Diagram of A Board**

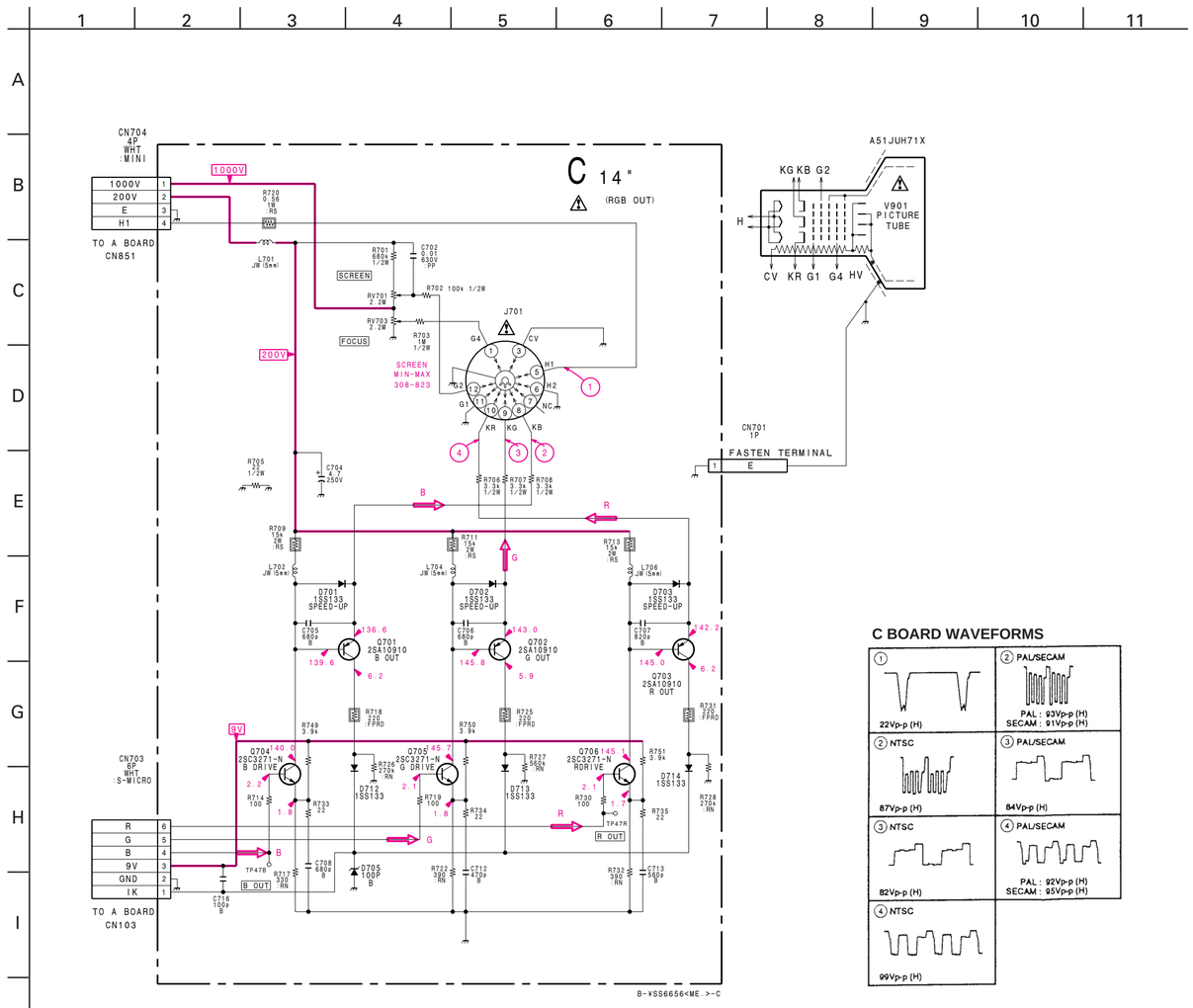


## C [RGB OUT]

**– C BOARD –**




**(2) Schematic Diagram of C Board**




## C BOARD WAVEFORMS



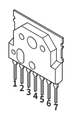

## 6-4. SEMICONDUCTORS

**IC**

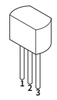
**CXP85220A-060S**
**ST24C04FB6**
**TDA4665T-T**
**TDA7438D**
**TDA8374A**
**TDA8395T**

Dual In-line Package
Pin 6 ~ 98

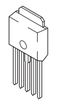
**LA7830**



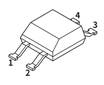

**LA7910 (9PIN)**



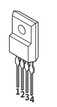

**L78LR05D-MA**



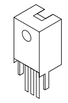
**PC123F2**



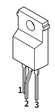

**PQ09RE11**



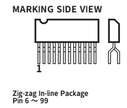

**SBX-1790-11**



**SE115N**

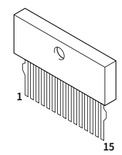



**STR-S6707 (9PIN)**

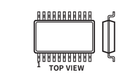



Zig-zag In-line Package
Pin 6 ~ 99

**TA8248K**

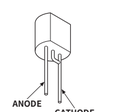



**µPC4558G2 (8PIN)**




Small Outline L-leaded Package
Pin 8 ~ 98

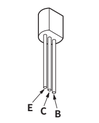
**µPC574J**



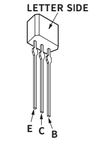

**TRANSISTOR**

**UN2211**
**UN2213**
**UN2216**
**2SA1162-G**
**2SD601A-Q**

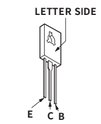
**2SA1091-O**



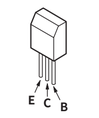

**2SC2410SN**




**2SC2611**



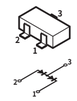

**2SC3209LK**



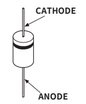

**2SD1877S**

**DIODE**

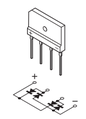
**DA204K**



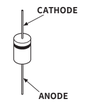

**D1NL20**
**EL1Z**
**GP08D**
**RGP02-17EL-6433**
**RN4Z**




**D4SB60L**

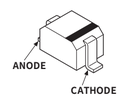


**ERC06-15S**
**S3L20UF4**
**1SS133T-77**

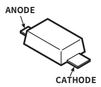



**RU4DS**

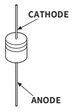
**DTZ9.1**
**MA113-(TX)**




**MA77**




**RD2.2ES-B2**
**RD3.6ESB1**
**RD4.7ESB2**
**RD5.1ES-B1**
**RD5.6ESB2**
**RD8.2ES-B2**
**RD9.1ES-L**
**1SS119-25**



# SECTION 7

# EXPLODED VIEWS

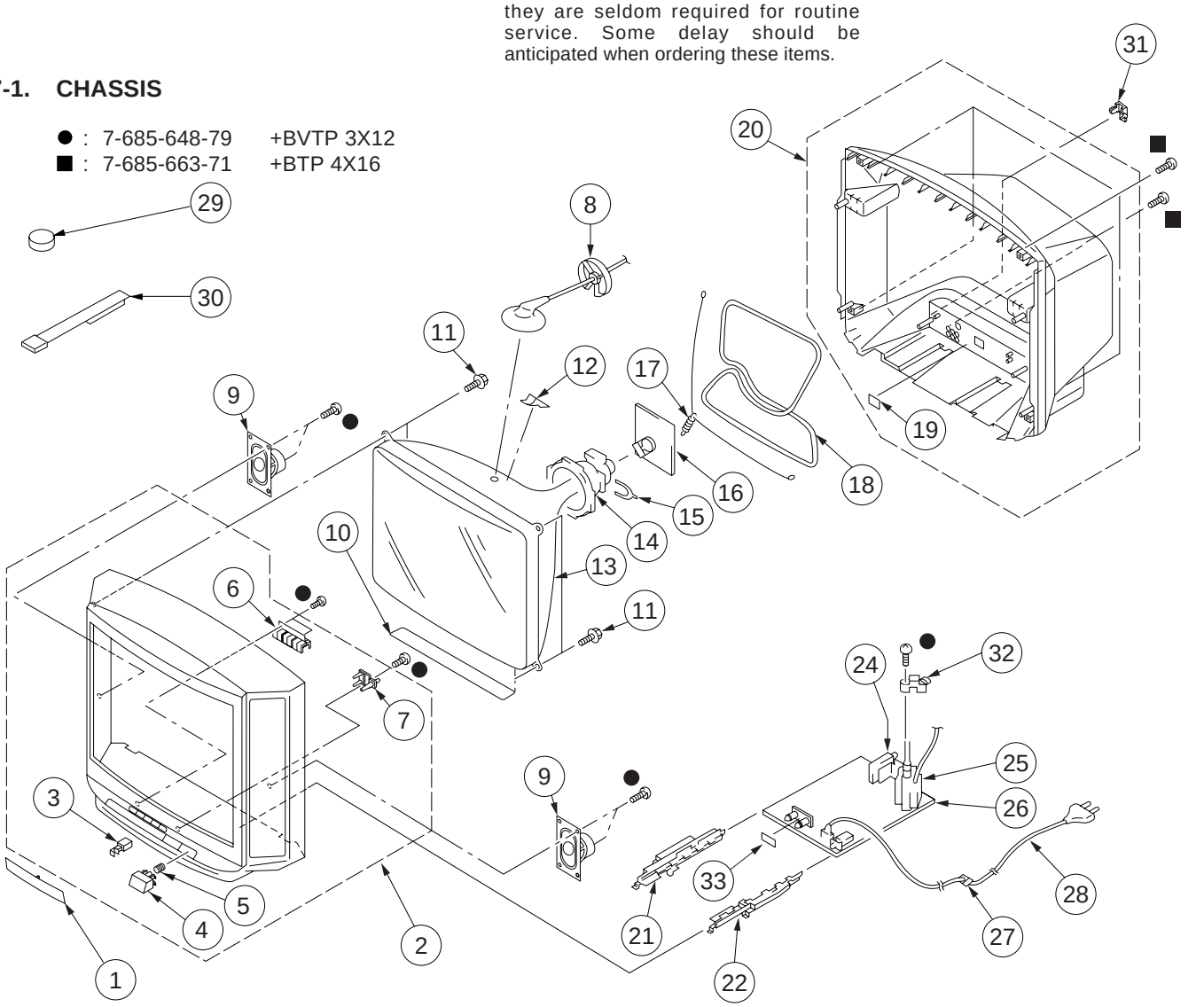
The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## 7-1. CHASSIS

● : 7-685-648-79 +BVTP 3X12
■ : 7-685-663-71 +BTP 4X16




| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 1 | 4-061-401-51 | DOOR, CONTROL | |
| 2 | X-4035-417-1 | BEZNET ASSY | 3-7 |
| 3 | 4-047-464-01 | CATCHER, PUSH | |
| 4 | 4-061-398-01 | BUTTON, POWER | |
| 5 | 4-036-405-11 | SPRING, COMPRESSION | |
| 6 | 4-061-400-01 | BUTTON, MULTI | |
| 7 | * 4-061-399-01 | GUIDE, LIGHT | |
| 8 | 3-704-372-01 | HOLDER, HV CABLE | |
| 9 | 1-504-305-11 | SPEAKER (5X12CM) | |
| 10 | 4-372-556-11 | SHEET, BLOTTING | |
| 11 | 4-365-808-01 | SCREW (5), TAPPING | |
| 12 | 4-046-600-01 | SPACER, DY | |
| 13 | ⚠ 8-735-562-05 | PICTURE TUBE (A34JBU70X) | |
| 14 | ⚠ 8-451-418-21 | DEFLECTION YOKE (Y14NDA2) | |
| 15 | 1-452-277-00 | MAGNET, BMC | |
| 16 | * A-1331-749-A | C BOARD, COMPLETE | |
| 17 | 4-369-318-00 | SPRING, TENSION | |
| 18 | ⚠ 1-426-145-13 | COIL, DEGAUSSING | |
| 19 | 4-049-416-01 | SHEET, BLIND | |
| 20 | ⚠ X-4035-263-1 | COVER ASSY, REAR | |
| 21 | * 4-055-841-01 | RAIL (L), GUIDE | |
| 22 | * 4-055-840-01 | RAIL (R), GUIDE | |
| 24 | ⚠ 8-598-323-10 | TUNER, VSS BT-AG401 | |
| 25 | ⚠ 1-453-249-11 | TRANSFORMER ASSY, FLYBACK (NX-1733//M3A) | |
| 26 | * A-1298-495-A | A BOARD, COMPLETE | |
| 27 | ⚠ 4-022-115-00 | HOLDER, AC CORD | |
| 28 | ⚠ 1-574-062-61 | CORD, POWER (WITH CONNECTOR) 2.5A/250V | |
| 29 | 1-452-032-00 | MAGNET,DISK ; 10mmø | |
| 30 | 4-051-736-21 | PIECE A(90), CONV. CORRECT | |
| 31 | 4-049-130-01 | CLAMPER, CORD | |
| 32 | * 4-059-711-01 | HOLDER, FBT | |
| 33 | 4-063-543-01 | SPACER | |

# SECTION 8
# ELECTRICAL PARTS LIST

A

NOTE:

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | * A-1298-495-A | A BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) | | | |
| | | <CAPACITOR> | | | |
| C001 | 1-163-011-11 | CERAMIC CHIP | 0.0015MF | 10% | 50V |
| C002 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C003 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C004 | 1-126-961-11 | ELECT | 2.2MF | 20% | 50V |
| C006 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C007 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C008 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C009 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C010 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C011 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C012 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C013 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C014 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C015 | 1-101-884-00 | CERAMIC | 56PF | 5% | 50V |
| C016 | 1-101-884-00 | CERAMIC | 56PF | 5% | 50V |
| C017 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C018 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C019 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C020 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C021 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C022 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C023 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C024 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C025 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C026 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C027 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C028 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C029 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C032 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C034 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C035 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C036 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C037 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C038 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C040 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C042 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C044 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C045 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C046 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C047 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C048 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C049 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C050 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C051 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C052 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C053 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C054 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C055 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C056 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C057 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C058 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C059 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C060 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C061 | 1-164-505-11 | CERAMIC CHIP | 2.2MF | | 16V |
| C064 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C072 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C074 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C101 | 1-163-029-11 | CERAMIC CHIP | 0.0047MF | | 50V |
| C105 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C106 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C108 | 1-126-942-61 | ELECT | 1000MF | 20% | 16V |
| C109 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C111 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C114 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C115 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C116 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C117 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C118 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C119 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C120 | 1-130-493-00 | MYLAR | 0.068MF | 5% | 50V |
| C121 | 1-130-493-00 | MYLAR | 0.068MF | 5% | 50V |
| C122 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C124 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C125 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C127 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C128 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C233 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C234 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C235 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C236 | 1-104-666-11 | ELECT | 220MF | 20% | 25V |
| C237 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C238 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V |
| C239 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C240 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V |
| C241 | 1-126-942-61 | ELECT | 1000MF | 20% | 25V |
| C242 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C243 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C244 | 1-126-942-61 | ELECT | 1000MF | 20% | 25V |
| C246 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C247 | 1-126-942-61 | ELECT | 1000MF | 20% | 25V |
| C252 | 1-126-961-11 | ELECT | 2.2MF | 20% | 50V |
| C253 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C255 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C258 | 1-130-494-11 | MYLAR | 0.082MF | 5% | 50V |
| C300 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C301 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C304 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C305 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C306 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C307 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C308 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C309 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C310 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C311 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C312 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C313 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C314 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C315 | 1-107-823-11 | CERAMIC CHIP | 0.47MF | 10% | 16V |
| C316 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C317 | 1-164-505-11 | CERAMIC CHIP | 2.2MF | | 16V |
| C319 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C320 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C321 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C322 | 1-216-295-91 | SHORT | 0 | | |
| C323 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C324 | 1-164-505-11 | CERAMIC CHIP | 2.2MF | | 16V |
| C325 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C326 | 1-163-229-11 | CERAMIC CHIP | 12PF | 5% | 50V |
| C327 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C328 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C329 | 1-163-016-00 | CERAMIC CHIP | 0.0039MF | 10% | 50V |
| C330 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C331 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C332 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C333 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C334 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C335 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |
| C336 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C337 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C338 | 1-107-823-11 | CERAMIC CHIP | 0.47MF | 10% | 16V |
| C339 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C340 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C341 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C342 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C344 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C349 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C350 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C351 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C352 | 1-164-489-11 | CERAMIC CHIP | 0.22MF | 10% | 16V |
| C358 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C359 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C361 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C367 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C368 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C369 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C370 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C374 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C375 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C376 | 1-107-823-11 | CERAMIC CHIP | 0.47MF | 10% | 16V |
| C402 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C403 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C405 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C406 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C407 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C408 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C409 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C410 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C411 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V |
| C412 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V |
| C413 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C414 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C415 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C416 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C417 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C418 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V |
| C419 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C420 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C422 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% | 50V |
| C423 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% | 50V |
| C424 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C501 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C523 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C548 | 1-106-220-00 | MYLAR | 0.1MF | 10% | 100V |
| C551 | 1-126-968-11 | ELECT | 100MF | 20% | 35V |
| C552 | 1-126-968-11 | ELECT | 100MF | 20% | 35V |
| C553 | 1-163-019-00 | CERAMIC CHIP | 0.0068MF | 10% | 50V |
| C554 | 1-102-244-00 | CERAMIC | 220PF | 10% | 500V |
| C555 | 1-101-804-00 | CERAMIC | 10PF | 5% | 500V |
| C562 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C603 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V |
| C604 | 1-107-414-11 | ELECT(BLOCK) | 220MF | 20% | 400V |
| C605 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V |
| C606 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V |
| C607 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V |
| C608 | 1-104-332-11 | CERAMIC | 470PF | 10% | 2KV |
| C609 | 1-124-347-00 | ELECT | 100MF | 20% | 160V |
| C610 | 1-126-943-11 | ELECT | 2200MF | 20% | 25V |
| C611 | ⚠1-117-697-11 | CERAMIC | 470PF | 10% | 250V |
| C612 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C613 | 1-102-824-00 | CERAMIC | 470PF | 5% | 50V |
| C614 | 1-126-943-11 | ELECT | 2200MF | 20% | 25V |
| C616 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C617 | 1-104-666-11 | ELECT | 220MF | 20% | 25V |
| C618 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C619 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C621 | ⚠1-104-705-51 | FILM | 0.1MF | 20% | 250V |
| C622 | 1-106-383-00 | MYLAR | 0.047MF | 10% | 200V |
| C623 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C624 | 1-126-942-61 | ELECT | 1000MF | 20% | 16V |
| C625 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C627 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C628 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C630 | ⚠1-117-697-11 | CERAMIC | 470PF | 10% | 250V |
| C631 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V |
| C632 | ⚠1-117-697-11 | CERAMIC | 470PF | 10% | 250V |
| C633 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 3KV |
| C634 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C801 | 1-123-024-21 | ELECT | 33MF | | 160V |
| C802 | 1-107-364-11 | MYLAR | 0.01MF | 10% | 200V |
| C804 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C805 | 1-102-244-00 | CERAMIC | 220PF | 10% | 500V |
| C806 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C809 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV |
| C810 | 1-106-365-00 | MYLAR | 0.0082MF | 10% | 200V |
| C811 | 1-101-821-00 | CERAMIC | 0.0022MF | | 500V |
| C812 | ⚠1-136-075-00 | FILM | 0.008MF | 3% | 2KV |
| C816 | 1-107-636-11 | ELECT | 10MF | 20% | 160V |
| C820 | ⚠1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C821 | 1-106-381-12 | MYLAR | 0.039MF | | 200V |
| C822 | 1-136-121-00 | FILM | 0.27MF | 5% | 200V |
| C823 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C825 | 1-107-364-11 | MYLAR | 0.01MF | 10% | 200V |
| C850 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C852 | 1-104-574-11 | CERAMIC | 0.0047MF | 10% | 2KV |
| C853 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C854 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C856 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C857 | 1-130-493-00 | MYLAR | 0.068MF | 5% | 50V |
| C860 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C861 | 1-107-654-11 | ELECT | 33MF | 20% | 250V |
| C876 | 1-107-369-11 | MYLAR | 0.068MF | 10% | 100V |
| C898 | 1-106-379-12 | MYLAR | 0.033MF | 10% | 100V |
| C900 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C901 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C1201 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C1202 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C1204 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C1205 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C1210 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |

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| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1213 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C1214 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C1217 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C1218 | 1-163-257-11 | CERAMIC CHIP | 180PF | 5% | 50V |
| C1219 | 1-104-665-11 | ELECT | 100MF | 20% | 16V |
| C1221 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C1225 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C1226 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C1228 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C1229 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C1230 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C1260 | 1-163-019-00 | CERAMIC CHIP | 0.0068MF | 10% | 50V |
| C1513 | 1-124-122-11 | ELECT | 100MF | 20% | 50V |
| | | <FILTER> | | | |
| CF45 | 1-527-943-00 | FILTER, CERAMIC | | | |
| CF55 | 1-567-099-00 | FILTER, CERAMIC | | | |
| CF60 | 1-567-100-00 | FILTER, CERAMIC | | | |
| CF65 | 1-567-101-11 | FILTER, CERAMIC | | | |
| | | <CONNECTOR> | | | |
| CN100 | * 1-508-784-00 | PIN, CONNECTOR (5mm PITCH) 1P | | | |
| CN101 | * 1-560-124-00 | PLUG, CONNECTOR (2.5MM) 4P | | | |
| CN103 | * 1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| CN251 | * 1-564-507-11 | PLUG, CONNECTOR 4P | | | |
| CN601 | * 1-580-843-11 | PIN, CONNECTOR (POWER) | | | |
| CN602 | * 1-508-786-00 | PIN, CONNECTOR (5mm PITCH) 2P | | | |
| CN603 | * 1-508-786-00 | PIN, CONNECTOR (5mm PITCH) 2P | | | |
| CN851 | 1-508-766-00 | PIN, CONNECTOR (5mm PITCH) 4P | | | |
| | | <TRIMMER> | | | |
| CT45 | 1-579-690-11 | TRAP, CERAMIC | | | |
| CT55 | 1-404-801-11 | TRAP, CERAMIC | | | |
| CT60 | 1-409-429-11 | TRAP, CERAMIC | | | |
| CT65 | 1-409-327-00 | TRAP, CERAMIC (6.5MHZ) | | | |
| | | <DIODE> | | | |
| D001 | 8-719-109-81 | DIODE RD4.7ESB2 | | | |
| D002 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D003 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D005 | 8-719-109-84 | DIODE RD5.1ESB1 | | | |
| D008 | 8-719-109-89 | DIODE RD5.6ESB2 | | | |
| D103 | 8-719-914-42 | DIODE DA204K | | | |
| D201 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D251 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D252 | 8-719-914-42 | DIODE DA204K | | | |
| D253 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D300 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D301 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D302 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D304 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D305 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D306 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D307 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D308 | 8-719-109-54 | DIODE RD2.2ESB2 | | | |
| D310 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| D311 | 8-719-109-68 | DIODE RD3.6ESB1 | | | |
| D312 | 8-719-110-08 | DIODE RD8.2ESB2 | | | |
| D315 | 8-719-121-24 | DIODE RD9.1ESL | | | |
| D351 | 8-719-908-03 | DIODE GP08D | | | |
| D399 | 8-719-977-22 | DIODE DTZ9.1 | | | |
| D401 | 8-719-421-40 | DIODE MA77 | | | |
| D402 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D403 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D513 | 8-719-109-84 | DIODE RD5.1ESB1 | | | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D551 | 8-719-908-03 | DIODE GP08D | |
| D561 | 8-719-911-19 | DIODE 1SS119-25 | |
| D591 | 8-719-911-19 | DIODE 1SS119-25 | |
| D601 | 8-719-510-53 | DIODE D4SB60L | |
| D604 | 8-719-301-64 | DIODE RU4DS | |
| D605 | 8-719-067-18 | DIODE RN4Z | |
| D606 | 8-719-510-73 | DIODE S3L20UF4 | |
| D607 | 8-719-510-26 | DIODE D1NL20-TA2 | |
| D609 | 8-719-510-26 | DIODE D1NL20-TA2 | |
| D610 | 8-719-510-26 | DIODE D1NL20-TA2 | |
| D611 | 8-719-510-26 | DIODE D1NL20-TA2 | |
| D801 | 8-719-945-80 | DIODE ERC06-15S | |
| D851 | 8-719-302-43 | DIODE EL1Z | |
| D852 | 8-719-028-72 | DIODE RGP02-17EL-6433 | |
| D853 | 8-719-302-43 | DIODE EL1Z | |
| D855 | 8-719-302-43 | DIODE EL1Z | |
| D857 | 8-719-908-03 | DIODE GP08D | |
| D858 | 8-719-908-03 | DIODE GP08D | |
| D860 | 8-719-911-19 | DIODE 1SS119-25 | |
| D901 | 1-810-039-11 | LED UNIT | |
| D1201 | 8-719-121-24 | DIODE RD9.1ESL | |
| D1202 | 8-719-121-24 | DIODE RD9.1ESL | |
| D1207 | 8-719-121-24 | DIODE RD9.1ESL | |
| D1208 | 8-719-121-24 | DIODE RD9.1ESL | |
| D1504 | 8-719-911-19 | DIODE 1SS119-25 | |
| D1505 | 8-719-109-81 | DIODE RD4.7ESB2 | |
| | | <FUSE> | |
| F601 | ⚠ 1-532-237-11 | FUSE, TIME-LAG (BET) 3.15A/250V | |
| | 1-533-223-11 | CLIP, FUSE ; F601 | |
| | | <FERRITE BEAD> | |
| FB101 | 1-410-397-21 | FERRITE 1.1UH | |
| FB102 | 1-410-397-21 | FERRITE 1.1UH | |
| FB103 | 1-410-397-21 | FERRITE 1.1UH | |
| FB251 | 1-410-397-21 | FERRITE 1.1UH | |
| FB601 | 1-410-397-21 | FERRITE 1.1UH | |
| FB603 | 1-410-397-21 | FERRITE 1.1UH | |
| FB610 | ⚠ 1-410-397-21 | FERRITE 1.1UH | |
| FB612 | 1-410-397-21 | FERRITE 1.1UH | |
| | | <IC> | |
| IC001 | 8-752-891-61 | IC CXP85220A-060S | |
| IC002 | 8-759-805-37 | IC L78LR05D-MA | |
| IC003 | 8-759-370-33 | IC ST24C04FB6 | |
| IC004 | 8-741-790-11 | HYB IC SBX1790-11 | |
| IC100 | 8-759-157-40 | IC uPC574J | |
| IC203 | 8-759-339-60 | IC TA8248K | |
| IC300 | 8-759-365-25 | IC TDA8374A | |
| IC351 | 8-759-288-85 | IC TDA4665T-T | |
| IC354 | 8-759-251-56 | IC TDA8395T | |
| IC401 | 8-759-800-65 | IC LA7910 | |
| IC521 | 8-759-195-63 | IC PQ09RE11 | |
| IC551 | 8-759-801-98 | IC LA7830 | |
| IC601 | 8-749-014-00 | IC STR-S6707N | |
| IC602 | 8-749-921-89 | IC SE115N | |
| IC603 | ⚠ 8-749-010-64 | PHOTO COUPLER PC123F2 | |
| IC801 | 8-759-100-96 | IC uPC4558G2 | |
| IC1210 | 8-759-100-96 | IC uPC4558G2 | |
| IC1211 | 8-759-711-23 | IC NJM2234L | |
| | | <JACK> | |
| J251 | 1-770-786-21 | JACK | |
| J1201 | 1-779-849-11 | JACK BLOCK, PIN 4P | |
| J1202 | 1-779-205-11 | JACK, PIN 2P | |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | <CHIP CONDUCTOR> | | | |
| JR050 | 1-216-295-91 | SHORT | 0 | | |
| JR052 | 1-216-295-91 | SHORT | 0 | | |
| JR101 | 1-216-295-91 | SHORT | 0 | | |
| JR111 | 1-216-295-91 | SHORT | 0 | | |
| JR112 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| JR113 | 1-216-295-91 | SHORT | 0 | | |
| JR114 | 1-208-291-11 | RES,CHIP | 4.7M | 5% | 1/10W |
| JR118 | 1-216-295-91 | SHORT | 0 | | |
| JR126 | 1-216-295-91 | SHORT | 0 | | |
| JR179 | 1-216-295-91 | SHORT | 0 | | |
| JR203 | 1-216-295-91 | SHORT | 0 | | |
| JR204 | 1-216-295-91 | SHORT | 0 | | |
| JR266 | 1-216-295-91 | SHORT | 0 | | |
| | | <COIL> | | | |
| L001 | 1-408-397-00 | INDUCTOR 1UH | | | |
| L002 | 1-410-509-11 | INDUCTOR 10UH | | | |
| L003 | 1-408-605-31 | INDUCTOR 15UH | | | |
| L101 | 1-410-470-11 | INDUCTOR 10UH | | | |
| L301 | 1-408-408-00 | INDUCTOR 8.2UH | | | |
| L401 | 1-410-498-11 | INDUCTOR 1.2UH | | | |
| L402 | 1-410-510-11 | INDUCTOR 12UH | | | |
| L403 | 1-410-510-11 | INDUCTOR 12UH | | | |
| L404 | 1-410-508-11 | INDUCTOR 8.2UH | | | |
| L405 | 1-410-508-11 | INDUCTOR 8.2UH | | | |
| L406 | 1-410-507-11 | INDUCTOR 6.8UH | | | |
| L407 | 1-410-511-11 | INDUCTOR 15UH | | | |
| L408 | 1-410-500-11 | INDUCTOR 1.8UH | | | |
| L409 | 1-410-501-11 | INDUCTOR 2.2UH | | | |
| L410 | 1-410-501-11 | INDUCTOR 2.2UH | | | |
| L411 | 1-410-502-11 | INDUCTOR 2.7UH | | | |
| L802 | 1-412-527-11 | INDUCTOR 15UH | | | |
| L805 | ⚠ 1-460-046-11 | COIL, HORIZONTAL LINEARITY | | | |
| L807 | 1-459-348-51 | COIL, VAR, FERRITE (HWC) | | | |
| L808 | 1-412-553-11 | INDUCTOR 3.3mH | | | |
| L821 | 1-406-677-11 | COIL, CHOKE 10mH | | | |
| L850 | 1-408-947-00 | INDUCTOR 2.2mH | | | |
| | | <TRANSISTOR> | | | |
| Q030 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q108 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q109 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q110 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q202 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q207 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q208 | 8-729-421-19 | TRANSISTOR UN2213 | | | |
| Q210 | 8-729-424-67 | TRANSISTOR UN2216 | | | |
| Q301 | 8-729-421-22 | TRANSISTOR UN2211 | | | |
| Q303 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q402 | 8-729-922-66 | TRANSISTOR 2SC2410SN | | | |
| Q403 | 8-729-424-67 | TRANSISTOR UN2216 | | | |
| Q404 | 8-729-424-67 | TRANSISTOR UN2216 | | | |
| Q405 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q406 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q407 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q408 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q409 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q410 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q411 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q412 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q413 | 8-729-424-67 | TRANSISTOR UN2216 | | | |
| Q414 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q415 | 8-729-424-67 | TRANSISTOR UN2216 | | | |
| Q416 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q417 | 8-729-424-67 | TRANSISTOR UN2216 | | | |
| Q418 | 8-729-424-67 | TRANSISTOR UN2216 | | | |
| Q561 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | |
| Q801 | 8-729-140-50 | TRANSISTOR 2SC3209LK | | | |
| Q802 | 8-729-810-49 | TRANSISTOR 2SD1877S-SONY-CA | | | |
| Q902 | 8-729-421-19 | TRANSISTOR UN2213 | | | |
| Q903 | 8-729-421-19 | TRANSISTOR UN2213 | | | |
| Q1201 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q1202 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q1203 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q1204 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q1207 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q1208 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q1209 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q1265 | 8-729-424-67 | TRANSISTOR UN2216 | | | |
| Q1513 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| | | <RESISTOR> | | | |
| R001 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R002 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R003 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R004 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R007 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R008 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R009 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R010 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R012 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R013 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R014 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R015 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R016 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R017 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R018 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R019 | 1-216-101-00 | RES,CHIP | 150K | 5% | 1/10W |
| R021 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R025 | 1-216-295-91 | SHORT | 0 | | |
| R026 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R028 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R029 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R031 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R033 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R035 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R036 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R038 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R040 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R041 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R042 | 1-216-039-00 | RES,CHIP | 390 | 5% | 1/10W |
| R045 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R047 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R048 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R053 | 1-216-295-91 | SHORT | 0 | | |
| R054 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R057 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R060 | 1-216-037-00 | RES,CHIP | 330 | 5% | 1/10W |
| R061 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R062 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R063 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R065 | 1-216-033-00 | RES,CHIP | 390 | 5% | 1/10W |
| R066 | 1-216-033-00 | RES,CHIP | 390 | 5% | 1/10W |
| R068 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R071 | 1-216-037-00 | RES,CHIP | 330 | 5% | 1/10W |
| R072 | 1-216-061-00 | RES,CHIP | 3.3K | 5% | 1/10W |
| R076 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R077 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R090 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R101 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R102 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R113 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

# A

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R114 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R115 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R116 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R117 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R118 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R119 | 1-216-055-00 | RES,CHIP | 1.8K | 5% | 1/10W |
| R120 | 1-216-109-00 | RES,CHIP | 330K | 5% | 1/10W |
| R131 | 1-216-464-11 | METAL OXIDE | 18K | 5% | 2W F |
| R180 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R181 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R182 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R240 | 1-216-039-00 | RES,CHIP | 390 | 5% | 1/10W |
| R242 | 1-216-039-00 | RES,CHIP | 390 | 5% | 1/10W |
| R243 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R244 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R245 | 1-216-069-00 | RES,CHIP | 6.8K | 5% | 1/10W |
| R248 | 1-216-071-00 | RES,CHIP | 8.2K | 5% | 1/10W |
| R250 | 1-216-071-00 | RES,CHIP | 8.2K | 5% | 1/10W |
| R251 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R252 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R253 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R254 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R255 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R256 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R257 | 8-719-041-97 | DIODE MA113-(TX) | | | |
| R265 | 1-216-061-00 | RES,CHIP | 3.3K | 5% | 1/10W |
| R266 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R301 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R302 | 1-216-063-91 | RES,CHIP | 3.9K | 5% | 1/10W |
| R303 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R304 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R305 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R306 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R307 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R308 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R309 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R310 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R311 | 1-216-075-00 | RES,CHIP | 12K | 5% | 1/10W |
| R312 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R313 | 1-216-053-00 | RES,CHIP | 1.5K | 5% | 1/10W |
| R314 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R315 | 1-216-295-91 | SHORT | 0 | | |
| R318 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R319 | 1-216-123-11 | RES,CHIP | 1.2M | 5% | 1/10W |
| R320 | 1-216-083-00 | RES,CHIP | 27K | 5% | 1/10W |
| R321 | 1-216-689-11 | METAL CHIP | 39K | 0.50% | 1/10W |
| R322 | 1-216-083-00 | RES,CHIP | 27K | 5% | 1/10W |
| R324 | 1-216-133-00 | RES,CHIP | 3.3M | 5% | 1/10W |
| R325 | 1-216-295-91 | SHORT | 0 | | |
| R326 | 1-216-063-91 | RES,CHIP | 3.9K | 5% | 1/10W |
| R327 | 1-216-295-91 | SHORT | 0 | | |
| R328 | 1-216-295-91 | SHORT | 0 | | |
| R329 | 1-216-295-91 | SHORT | 0 | | |
| R330 | 1-216-043-91 | RES,CHIP | 560 | 5% | 1/10W |
| R331 | 1-216-117-00 | RES,CHIP | 680K | 5% | 1/10W |
| R332 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R333 | 1-216-077-00 | RES,CHIP | 15K | 5% | 1/10W |
| R335 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R336 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R338 | 1-216-295-91 | SHORT | 0 | | |
| R339 | 1-216-036-00 | RES,CHIP | 300 | 5% | 1/10W |
| R340 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R341 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R351 | 1-216-001-00 | RES,CHIP | 10 | 5% | 1/10W |
| R355 | 1-216-001-00 | RES,CHIP | 10 | 5% | 1/10W |
| R356 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R360 | 1-208-291-11 | RES,CHIP | 4.7M | 5% | 1/10W |
| R403 | 1-216-021-00 | RES,CHIP | 68 | 5% | 1/10W |
| R406 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R407 | 1-216-063-91 | RES,CHIP | 3.9K | 5% | 1/10W |
| R408 | 1-216-055-00 | RES,CHIP | 1.8K | 5% | 1/10W |
| R409 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R410 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R411 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R412 | 1-216-069-00 | RES,CHIP | 6.8K | 5% | 1/10W |
| R413 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R414 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R415 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R416 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R417 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R418 | 1-216-045-00 | RES,CHIP | 680 | 5% | 1/10W |
| R419 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R420 | 1-216-039-00 | RES,CHIP | 390 | 5% | 1/10W |
| R421 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R422 | 1-216-027-00 | RES,CHIP | 120 | 5% | 1/10W |
| R423 | 1-216-029-00 | RES,CHIP | 150 | 5% | 1/10W |
| R424 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R425 | 1-216-039-00 | RES,CHIP | 390 | 5% | 1/10W |
| R426 | 1-216-029-00 | RES,CHIP | 150 | 5% | 1/10W |
| R427 | 1-216-037-00 | RES,CHIP | 330 | 5% | 1/10W |
| R428 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R429 | 1-216-039-00 | RES,CHIP | 390 | 5% | 1/10W |
| R430 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R431 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R432 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R433 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R434 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R435 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R436 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R437 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R440 | 1-216-029-00 | RES,CHIP | 150 | 5% | 1/10W |
| R521 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R555 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R556 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R557 | 1-216-055-00 | RES,CHIP | 1.8K | 5% | 1/10W |
| R560 | 1-216-295-91 | SHORT | 0 | | |
| R561 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R562 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W F |
| R563 | 1-260-126-11 | CARBON | 180K | 5% | 1/2W |
| R564 | 1-216-091-00 | RES,CHIP | 56K | 5% | 1/10W |
| R565 | 1-216-091-00 | RES,CHIP | 56K | 5% | 1/10W |
| R566 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R569 | 1-260-125-11 | CARBON | 150K | 5% | 1/2W |
| R571 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R610 | 1-215-924-00 | METAL OXIDE | 15K | 5% | 3W F |
| R611 | ⚠ 1-202-933-61 | FUSIBLE | 0.1 | 10% | 1/2W F |
| R612 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R613 | 1-219-134-11 | FUSIBLE | 0.1 | 10% | 1/4W |
| R614 | 1-215-877-11 | METAL OXIDE | 22K | 5% | 1W F |
| R615 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R616 | ⚠ 1-218-265-91 | METAL | 8.2M | 5% | 1W |
| R617 | 1-215-924-00 | METAL OXIDE | 15K | 5% | 3W F |
| R618 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R619 | 1-219-134-11 | FUSIBLE | 0.1 | 10% | 1/4W |
| R620 | 1-202-962-11 | CEMENTED | 3.3 | 5% | 10W |
| R622 | 1-207-615-00 | WIREWOUND | 0.33 | 10% | 2W F |
| R623 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R624 | 1-216-446-00 | METAL OXIDE | 18 | 5% | 2W F |
| R625 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/4W |
| R626 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R627 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R628 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R629 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R636 | 1-215-924-00 | METAL OXIDE | 15K | 5% | 3W F |
| R801 | 1-215-921-11 | METAL OXIDE | 4.7K | 5% | 3W F |
| R803 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R804 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A C

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R805 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R809 | 1-247-763-11 | CARBON | 8.2K | 5% | 1/2W F |
| R811 | 1-216-350-11 | METAL OXIDE | 1.2 | 5% | 1W F |
| R816 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R820 | 1-216-053-00 | RES,CHIP | 1.5K | 5% | 1/10W |
| R821 | 1-216-475-11 | METAL OXIDE | 120 | 5% | 3W F |
| R822 | 1-216-429-00 | METAL OXIDE | 270 | 5% | 1W F |
| R823 | 1-215-869-11 | METAL OXIDE | 1K | 5% | 1W F |
| R824 | 1-215-889-00 | METAL OXIDE | 330 | 5% | 2W F |
| R825 | 1-249-392-11 | CARBON | 8.2 | 5% | 1/4W F |
| R829 | 1-216-651-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R831 | 1-215-887-00 | METAL OXIDE | 150 | 5% | 2W F |
| R834 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R851 | 1-249-382-11 | CARBON | 1.2 | 5% | 1/4W F |
| R852 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R853 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R854 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R855 | 1-260-107-11 | CARBON | 4.7K | 5% | 1/2W |
| R856 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R857 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R858 | 1-216-370-11 | METAL OXIDE | 1.2 | 5% | 2W F |
| R860 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W |
| R883 | 1-216-696-11 | METAL CHIP | 75K | 0.50% | 1/10W |
| R895 | 1-216-349-00 | METAL OXIDE | 1 | 5% | 1W F |
| R898 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R902 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R906 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R907 | 1-216-043-91 | RES,CHIP | 560 | 5% | 1/10W |
| R908 | 1-216-059-00 | RES,CHIP | 2.7K | 5% | 1/10W |
| R909 | 1-216-071-00 | RES,CHIP | 8.2K | 5% | 1/10W |
| R910 | 1-216-043-91 | RES,CHIP | 560 | 5% | 1/10W |
| R911 | 1-216-059-00 | RES,CHIP | 2.7K | 5% | 1/10W |
| R912 | 1-216-071-00 | RES,CHIP | 8.2K | 5% | 1/10W |
| R913 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R914 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R1201 | 1-216-023-00 | RES,CHIP | 82 | 5% | 1/10W |
| R1202 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1203 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R1205 | 1-216-023-00 | RES,CHIP | 82 | 5% | 1/10W |
| R1206 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R1211 | 1-216-021-00 | RES,CHIP | 68 | 5% | 1/10W |
| R1212 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1215 | 1-216-113-00 | RES,CHIP | 470K | 5% | 1/10W |
| R1216 | 1-216-113-00 | RES,CHIP | 470K | 5% | 1/10W |
| R1218 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R1219 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R1220 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1221 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R1227 | 1-216-689-11 | RES,CHIP | 39K | 5% | 1/10W |
| R1228 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1229 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R1230 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R1231 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1232 | 1-216-063-91 | RES,CHIP | 3.9K | 5% | 1/10W |
| R1233 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R1235 | 1-216-689-11 | RES,CHIP | 39K | 5% | 1/10W |
| R1239 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R1240 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R1241 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1243 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R1245 | 1-216-037-00 | RES,CHIP | 330 | 5% | 1/10W |
| R1246 | 1-216-037-00 | RES,CHIP | 330 | 5% | 1/10W |
| R1247 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R1248 | 1-216-053-00 | RES,CHIP | 1.5K | 5% | 1/10W |
| R1249 | 1-216-044-00 | RES,CHIP | 620 | 5% | 1/10W |
| R1250 | 1-216-119-00 | RES,CHIP | 820K | 5% | 1/10W |
| R1251 | 1-216-119-00 | RES,CHIP | 820K | 5% | 1/10W |
| R1252 | 1-216-061-00 | RES,CHIP | 3.3K | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R1253 | 1-216-053-00 | RES,CHIP | 1.5K | 5% | 1/10W |
| R1255 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R1513 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R1514 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R1515 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| | | <SWITCH> | | | |
| S601 | ⚠ 1-762-087-11 | SWITCH, PUSH (AC POWER) | | | |
| S801 | 1-572-707-11 | SWITCH, LEVER | | | |
| S901 | 1-571-532-21 | SWITCH, TACTIL | | | |
| S902 | 1-571-532-21 | SWITCH, TACTIL | | | |
| S903 | 1-571-532-21 | SWITCH, TACTIL | | | |
| S904 | 1-571-532-21 | SWITCH, TACTIL | | | |
| S905 | 1-571-532-21 | SWITCH, TACTIL | | | |
| S906 | 1-571-532-21 | SWITCH, TACTIL | | | |
| | | <SPARK GAP> | | | |
| SG801 | 1-519-422-11 | GAP, SPARK | | | |
| | | <FILTER> | | | |
| SWF401 | 1-760-771-11 | FILTER, SURFACE WAVE | | | |
| | | <TRANSFORMER> | | | |
| T601 | ⚠ 1-429-137-11 | TRANSFORMER, CONVERTER (SRT) | | | |
| T605 | ⚠ 1-424-682-11 | TRANSFORMER, LINE FILTER | | | |
| T801 | 1-437-195-11 | TRANSFORMER, HORIZONTAL DRIVE | | | |
| T851 | ⚠ 1-453-249-11 | TRANSFORMER ASSY, FLYBACK (NX-1733//M3A) | | | |
| | | <THERMISTOR> | | | |
| THP601 | ⚠ 1-806-165-12 | THERMISTOR (POSITIVE) | | | |
| | | <TUNER> | | | |
| TU101 | ⚠ 8-598-323-30 | TUNER, VSS BT-AG401 | | | |
| | | <CRYSTAL> | | | |
| X101 | 1-577-358-21 | VIBRATOR, CERAMIC | | | |
| X300 | 1-411-752-11 | COIL | | | |
| X358 | 1-567-505-11 | OSCILLATOR, CRYSTAL | | | |
| X443 | 1-567-504-11 | OSCILLATOR, CRYSTAL | | | |

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* A-1331-749-A C BOARD, COMPLETE
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| | | | | | |
|---|---|---|---|---|---|
| | | <CAPACITOR> | | | |
| C702 | 1-136-601-11 | FILM | 0.01MF | 10% | 630V |
| C704 | 1-107-651-11 | ELECT | 4.7MF | 20% | 250V |
| C705 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C706 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C707 | 1-102-117-00 | CERAMIC | 820PF | 10% | 50V |
| C708 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C712 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V |
| C713 | 1-102-115-00 | CERAMIC | 560PF | 10% | 50V |
| C716 | 1-102-106-00 | CERAMIC | 100PF | 10% | 50V |
| | | <CONNECTOR> | | | |
| CN701 | 1-695-915-11 | TAB (CONTACT) | | | |
| CN703 | * 1-564-509-11 | PLUG, CONNECTOR 6P | | | |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

**C**

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| CN704 | * 1-508-766-00 | PIN, CONNECTOR (5mm PITCH) 4P | | | | |
| | | <DIODE> | | | | |
| D701 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D702 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D703 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D705 | 1-102-106-00 | CERAMIC | 100PF | 10% | 50V | |
| D712 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D713 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D714 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| | | <JACK> | | | | |
| J701 | ⚠ 1-251-192-11 | SOCKET, PICTURE TUBE | | | | |
| | | <TRANSISTOR> | | | | |
| Q701 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | | |
| Q702 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | | |
| Q703 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | | |
| Q704 | 8-729-326-11 | TRANSISTOR 2SC2611 | | | | |
| Q705 | 8-729-326-11 | TRANSISTOR 2SC2611 | | | | |
| Q706 | 8-729-326-11 | TRANSISTOR 2SC2611 | | | | |
| | | <RESISTOR> | | | | |
| R701 | 1-260-133-11 | CARBON | 680K | 5% | 1/2W | |
| R702 | 1-260-123-11 | CARBON | 100K | 5% | 1/2W | |
| R703 | 1-260-135-11 | CARBON | 1M | 5% | 1/2W | |
| R705 | 1-260-079-11 | CARBON | 22 | 5% | 1/2W | |
| R706 | 1-260-105-11 | CARBON | 3.3K | 5% | 1/2W | |
| R707 | 1-260-105-11 | CARBON | 3.3K | 5% | 1/2W | |
| R708 | 1-260-105-11 | CARBON | 3.3K | 5% | 1/2W | |
| R709 | 1-215-899-11 | METAL OXIDE | 15K | 5% | 2W | F |
| R711 | 1-215-899-11 | METAL OXIDE | 15K | 5% | 2W | F |
| R713 | 1-215-899-11 | METAL OXIDE | 15K | 5% | 2W | F |
| R714 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R717 | 1-215-409-00 | METAL | 330 | 1% | 1/4W | |
| R718 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R719 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R720 | 1-216-346-00 | METAL OXIDE | 0.56 | 5% | 1W | F |
| R722 | 1-215-411-00 | METAL | 390 | 1% | 1/4W | |
| R725 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R726 | 1-215-479-00 | METAL | 270K | 1% | 1/4W | |
| R727 | 1-215-487-00 | METAL | 560K | 1% | 1/4W | |
| R728 | 1-215-479-00 | METAL | 270K | 1% | 1/4W | |
| R730 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R731 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R732 | 1-215-411-00 | METAL | 390 | 1% | 1/4W | |
| R733 | 1-247-791-91 | CARBON | 22 | 5% | 1/4W | |
| R734 | 1-247-791-91 | CARBON | 22 | 5% | 1/4W | |
| R735 | 1-247-791-91 | CARBON | 22 | 5% | 1/4W | |
| R749 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/4W | |
| R750 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/4W | |
| R751 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/4W | |
| | | <VARIABLE RESISTOR> | | | | |
| RV701 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M | | | | |
| RV703 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M | | | | |

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MISCELLANEOUS
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| | | |
|---|---|---|
| ⚠ 1-426-145-13 | COIL, DEGAUSSING | |
| 1-452-032-00 | MAGNET,DISK ; 10mmø | |
| 1-452-277-00 | MAGNET, BMC | |
| 1-504-305-11 | SPEAKER (5X12CM) | |
| ⚠ 1-574-062-61 | CORD, POWER (WITH CONNECTOR) | 2.5A/250V |
| ⚠ 8-451-418-21 | DEFLECTION YOKE (Y14NDA2) | |
| ⚠ 8-735-562-05 | PICTURE TUBE (A34JBU70X) | |

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ACCESSORIES AND PACKING MATERIALS
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| | |
|---|---|
| 1-417-151-21 | MATCHING TRANSFORMER, ANTENNA |
| 1-501-372-81 | ANTENNA, TELESCOPIC |
| 1-569-008-11 | ADAPTOR, CONVERSION 2P |
| 3-862-305-11 | MANUAL, INSTRUCTION |
| 4-063-961-01 | CUSHION (UPPER) (ASSY) |
| 4-063-962-01 | CUSHION (LOWER) (ASSY) |
| 4-063-963-01 | CUSHION (UPPER LEFT) |
| 4-063-964-01 | CUSHION (UPPER RIGHT) |
| 4-063-965-01 | CUSHION (LOWER LEFT) |
| 4-063-966-01 | CUSHION (LOWER RIGHT) |
| 4-063-967-01 | INDIVIDUAL CARTON |
| * 4-377-015-01 | BAG, PROTECTION |

REMOTE COMMANDER
**********

| | |
|---|---|
| 1-475-358-11 | REMOTE COMMANDER (RM-869) |
| 9-939-697-01 | POCKET, COVER (FOR RM-869) |


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